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### Examination Portal

Mathematics Teacher

Question No. (1 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q1. / 1 Q1. In 2D- space, the following system  $y = x + 1$  and  $y = x - 1$  represents:

Answer

- A  A circle
- B  Intersecting lines
- C  Parallel lines
- D  A point

Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is:

in  $y = (x + 1)^2$  is:

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### Examination Portal

Mathematics Teacher

Question No. (2 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q2. / 1 Q2. A system of equations that has no solution, it is said to be:

Answer

- A  Independent
- B  Dependent
- C  Inconsistence
- D  Consistent

Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is:

in  $y = (x + 1)^2$  is:

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### MIFOTRA Examination Portal

Mathematics Teacher

Question No. (3 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28

sidered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

ving system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

on  $y = (x + 1)^2$  is:

Q3. / Q3. The graphs of the two equations and , such that 1 a and A have different signs and that the quantities mark and are both negative.

Answer

A  intersect at two points

B  intersect at one point

C  do not intersect

none of the above

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### MIFOTRA Examination Portal

Mathematics Teacher

Question No. (4 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28

sidered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

ving system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

on  $y = (x + 1)^2$  is:

Q4. / 1 Q4. Which of the following is true when a, b, and c are different real numbers?

Answer

A   $a - b = b - a$

B   $a(b - c) = b(c - a)$

C   $b - c = c - b$

D   $ab = ba$

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### Examination Portal

Mathematics Teacher

Question No. (5 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q5. / Q5. When a parabola represented by the equation  $y - 1 - 2x^2 = 8x + 5$  is translated 3 units to the left and 2 mark units up, the new parabola has its vertex at :

Answer

A  (-5, -1)

B  (-5, -5)

C  (-1, -3)

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28

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### Examination Portal

Mathematics Teacher

Question No. (6 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q6. / Q6. The graphs of the two linear equations  $ax + by + 1 = c$  and  $b - ax + y = c$ , where none of the coefficients mark  $a, b, c$  is equal to zero,

Answer

A  are parallel

B  intersect at the point (0,0)

C  intersect at two points

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28

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### Examination Portal

Mathematics Teacher

Question No. (7 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q7. / 1 Q7. Given two real numbers a and b we define the mark complex number z as  $z = a + ib$ . Then  $z = 4i$  is:

Answer

- A  Not a complex number
- B  A complex number with only real part
- C  A complex number with only imaginably part
- D  none of them is correct

Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

On  $y = (x+1)^2$  is:

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### Examination Portal

Mathematics Teacher

Question No. (8 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q8. / 1 Q8. If Logarithm of  $1/8$  in base x equals  $-3/2$ , then x is equal to

Answer

- A  -4
- B  4
- C  1/4
- D  10

Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

On  $y = (x+1)^2$  is:

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Question No. (9 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q9. / 1 mark Q9. Bearings are always measured in:

Answer

- A Clockwise direction
- B Anti clockwise direction
- C Vertical direction
- D Horizontal direction

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Question No. (10 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions

Q10. / 1 mark Q10. 20 percent (20 %) of 2 is equal to

Answer

- A 20
- B 4
- C 0.4
- D 0.04

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Question No. (11 / 50)

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All Questions

Q11. Q11.If a fair coin is tossed, the probability that it will land heads up is  $1/2$ . In four successive tosses, a fair coin lands heads up each time. What is likely to happen when the coin is tossed a fifth time?

Answer

A  It is more likely to land tails up than heads up.

B  It is more likely to land heads up than tails up.

C  It is equally likely to land heads up or tails up.

D  More information is needed to answer the question.

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

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Question No. (12 / 50)

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All Questions

Q12. / 1 Q12.If Logarithm of x in base 4 equals 12, then mark Logarithm of x/4 in base 2 equal to :

Answer

A  11

B  48

C  -12

D  22

Next

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (13 / 50)

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All Questions

Q13. / 1 mark Q13.If  $x + 3y = 11$  and  $2x + 3y = 13$ , then the value of  $y$  is:

Answer

A  -2

B  2

C  -3

D  3

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (14 / 50)

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All Questions

Q14. / 1 mark Q14.Given the following ordered pairs (3, 6) , (6, 15) , (8, 21), Which of these describes how to get the second number from the first number in every ordered pair above?

Answer

A  Add 3

B  Multiply by 2

C  Multiply by 2 and then add 3

D  Multiply by 3 and then subtract 3

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (15 / 50)

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All Questions

Q15. Q15. In Mathematics, there are different notation for / 1 open intervals, different notation of vectors, different mark notation for ratio, etc. All of these notations are universal and internationally used. During my Mathematics lessons delivery, I will:

Answer

A  Alternate both notations while teaching because students need to know and use all of them at the same time

B  consistently use one notation and tell students that there exists another type of notation

C  only use one of the notations because

D  only use one of the notations because

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Mathematics Teacher

Question No. (16 / 50)

Remaining exam time 00H:00Min:00Sec

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All Questions

Q16. Q16. The probability that an electronic device / 1 produced by a company does not function properly is mark equal to 0.1. If 10 devices are bought, then the probability, to the nearest thousandth, that 7 devices function properly is

Answer

A  0.057

B  0.478

C  0.001

D  0

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Mathematics Teacher

Question No. (17 / 50)

Remaining exam time 00H:00Min:00Sec

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Instructions Show

All Questions

Q17. / 1 mark Q17.The period of  $2 \sin x \cos x$  is

Answer

A   $4\pi^2$

B   $2\pi$

C   $4\pi$

D   $\pi$

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x+1)^2$  is:

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Mathematics Teacher

Question No. (18 / 50)

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Instructions Show

All Questions

Q18. / 1 mark Q18.If  $f(x)$  is an odd function, then the absolute value of  $f(x)$  is:

Answer

A  an odd function

B  an even function

C  neither odd nor even

D  even and odd

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x+1)^2$  is:

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Mathematics Teacher

Question No. (19 / 50)

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All Questions

Q19. / Q19.A Six-Sided Die is rolled once. What is the probability that the number rolled is an even number greater than 2?

Answer

A  1/3

B  1/2

C  1

D  0

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (20 / 50)

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Instructions Show

All Questions

Q20. / 1 Q20.A number system with the base of 2 is called?

Answer

A  octal

B  Binary

C  Decimal

D  None is correct

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Question No. (21 / 50)

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All Questions

Q21. / 1 mark Q21.The Sum of  $2a + b + 5c$  and  $-5a - 2b + 3c$  is:

Answer

A   $3a + b + 8c$

B   $-3a + b + 8c$

C   $3a - b + 8c$

D   $-3a - b + 8c$

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is:

Find the value of  $m$  if  $y^2 - (x+1)^2$  is:

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Question No. (22 / 50)

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All Questions

Q22. / 1 mark Q22.If Expression  $12c + 1b + 7d$  is subtracted from  $39c + 40b + 45d$ . Then answer will be

Answer

A   $27c+39b + 38d$

B   $27c-39b + 38d$

C   $27c-39b - 38d$

D   $27c+39b - 38d$

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is:

Find the value of  $m$  if  $y^2 - (x+1)^2$  is:

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Question No. (23 / 50)

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All Questions

Q23. Q23.If Following Pattern Is Considered  $2^2 + 1 = 5$ ,  $3^2 + 1 = 10$ ,  $4^2 + 1 = 17$ ,  $5^2 + 1 = 26$ , ... Then the mark value of  $x$  in  $x^2 + 1 = 170$  will be:

Answer

A  31

B  13

C  3

D  12

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

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Question No. (24 / 50)

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All Questions

Q24. / 1 Q24.In following Sequence 79, 76, 73, 70, next mark Three numbers in Sequence are:

Answer

A  769,67,64

B  61,64,67

C  67,64,61

D  69,64,61

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (25 / 50)

Remaining exam time 00H:00Min:00Sec

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All Questions

Q25. / 1 mark Q25. Two Trigonometric Ratios whose values cannot be greater than 1 are?

Answer

A  Tangent And Cosine

B  Tangent And Ssine

C  Sine And Cosine

D  None is correct

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y^2 - (x+1)^2$  is:

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Mathematics Teacher

Question No. (26 / 50)

Remaining exam time 00H:00Min:00Sec

Remaining additional time: Checking...

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Instructions Show

All Questions

Q26. / 1 mark Q26. On A-Line, Sum of adjacent angles is equal to:

Answer

A  90°

B  180°

C  45°

D  150°

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y^2 - (x+1)^2$  is:

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Mathematics Teacher

Question No. (27 / 50)

Remaining exam time 00H:00Min:00Sec

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Instructions Show

All Questions

Q27. / 1 Q27. How many tangents can be drawn to a circle from an external point ?

mark

Answer

A  0

B  1

C  2

D  3

Next

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (28 / 50)

Remaining exam time 00H:00Min:00Sec

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Instructions Show

All Questions

Q28. / 1 Q28. A triangle is a geometric shape and it is:

mark

Answer

A  a one-dimensional shape

B  a two-dimensional shape

C  a three-dimensional shape

D  a four-dimensional shape

Next

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (29 / 50)

Remaining exam time 00H:00Min:00Sec

Remaining additional time: Checking...

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Instructions Show

All Questions

Q29. / 1 mark Q29.The meaning of the word "Gradient" is

Answer

- A  The slope line
- B  The tangent line
- C  The intersecting line
- D  The steepness of a slope

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher

Question No. (30 / 50)

Remaining exam time 00H:00Min:00Sec

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Instructions Show

All Questions

Q30. / 1 mark Q30.A graph in the form of  $x = a$  is called:

Answer

- A  A straight vertical line
- B  A straight horizontal line
- C  A straight oblique line
- D  A curved line

Next

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32

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Mathematics Teacher Question No. (31 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

Instructions Show

All Questions Qn.1 Qn.2 Qn.3 Qn.4 Qn.5 Qn.6 Qn.7 Qn.8 Qn.9 Qn.10 Qn.11 Qn.12 Qn.13 Qn.14 Qn.15 Qn.16 Qn.17 Qn.18 Qn.19 Qn.20 Qn.21 Qn.22 Qn.23 Qn.24 Qn.25 Qn.26 Qn.27 Qn.28 Qn.29 Qn.30 Qn.31 Qn.32

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26, \dots$  will be:

Find the solution set of the following system of equations 
$$\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$$
 is:

Find the value of  $m$  if  $y^2 - (x+1)^2$  is:

Q31. / 3 marks Q31.As a Mathematics teacher, I know and understand that to possess a well prepared lesson plan will help me to:

Answer

A  only convince my school leaders that I'm always prepared ahead.

B  only deliver my lesson and convince my students

C  well deliver my lesson by respecting each step and timing, facilitating students to progressively achieve the lesson instructional objective

D  only deliver my lesson and meet the

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Mathematics Teacher Question No. (32 / 50) Remaining exam time 00H:00Min:00Sec Remaining additional time Checking... Submit Exam

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All Questions Qn.1 Qn.2 Qn.3 Qn.4 Qn.5 Qn.6 Qn.7 Qn.8 Qn.9 Qn.10 Qn.11 Qn.12 Qn.13 Qn.14 Qn.15 Qn.16 Qn.17 Qn.18 Qn.19 Qn.20 Qn.21 Qn.22 Qn.23 Qn.24 Qn.25 Qn.26 Qn.27 Qn.28 Qn.29 Qn.30 Qn.31 Qn.32 Qn.33 Qn.34 Qn.35 Qn.36 Qn.37 Qn.38 Qn.39 Qn.40

Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 26, \dots$  will be:

Find the solution set of the following system of equations 
$$\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$$
 is:

Find the value of  $m$  if  $y^2 - (x+1)^2$  is:

Q32. / 3 marks Q32.The solution set of the following system of equations is:

Answer

A   $S=\{(3,1,2)\}$

B   $S=\{(1,2,3)\}$

C   $S=\{(2,1,3)\}$

D   $S=\{(2,3,1)\}$

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50)

Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is:

Find the value of  $(x+1)^2$  is:

Q33. / Q33. The numbers in the sequence 7, 11, 15, 19, 23, ... increase by four. The numbers in the sequence 1, 10, 19, 28, 37, ... increase by nine. The number 19 is in both sequences. If the two sequences are continued, what is the next number that is in BOTH the first and the second sequences?

marks

Answer

A  27

B  37

C  46

D  55

All Questions

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

Qn.33 Qn.34 Qn.35 Qn.36

Qn.37 Qn.38 Qn.39 Qn.40

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Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is:

Find the value of  $(x+1)^2$  is:

Q34. / Q34. For  $x$  greater than or equal to zero and less than or equal to  $2\pi$ ,  $\sin x$  and  $\cos x$  are both decreasing on the intervals

marks

Answer

A   $(0, \pi/2)$

B   $(\pi/2, \pi)$

C   $(\pi, 3\pi/2)$

D   $(3\pi/2, 2\pi)$

Next

All Questions

Qn.1 Qn.2 Qn.3 Qn.4

Qn.5 Qn.6 Qn.7 Qn.8

Qn.9 Qn.10 Qn.11 Qn.12

Qn.13 Qn.14 Qn.15 Qn.16

Qn.17 Qn.18 Qn.19 Qn.20

Qn.21 Qn.22 Qn.23 Qn.24

Qn.25 Qn.26 Qn.27 Qn.28

Qn.29 Qn.30 Qn.31 Qn.32

Qn.33 Qn.34 Qn.35 Qn.36

Qn.37 Qn.38 Qn.39 Qn.40

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50)

idered  $2^2 + 1 = 5$ ,  $3^2 + 1 = 10$ ,  $4^2 + 1 = 17$ ,  $5^2 + 1 = 26$ , ...

ing system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is :

on  $y = (x + 1)^2$  is :

Q35. / 3 marks Q35. The derivative of the function is :

Answer

A   $2(x + 1)$

B   $x + 1$

C   $x^2 + 1$

D   $2x$

Next

All Questions

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32  
Qn.33 Qn.34 Qn.35 Qn.36  
Qn.37 Qn.38 Qn.39 Qn.40

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50)

idered  $2^2 + 1 = 5$ ,  $3^2 + 1 = 10$ ,  $4^2 + 1 = 17$ ,  $5^2 + 1 = 26$ , ...

ing system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = -10 \end{cases}$  is :

on  $y = (x + 1)^2$  is :

Q36. / 3 marks Q36. Five different books (A, B, C, D and E) are to be arranged on a shelf. Books C and D are to be arranged first and second starting from the right of the shelf. The number of different orders in which books A, B and E may be arranged is

Answer

A  5!

B  3!

C  2!

D  3! 2!

Next

All Questions

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32  
Qn.33 Qn.34 Qn.35 Qn.36  
Qn.37 Qn.38 Qn.39 Qn.40

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Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x+1)^2$  is:

**Q37. / Q37.** Point A has the Coordinates (2,2). What are the Coordinates of its Image Point if it is Translated 2 Units Up and 5 Units to the Left, and Reflected in the X-Axis?

marks 3

Answer

A  (-3,-4)

B  (-3,4)

C  (2,-4)

D  (3,-4)

Next

All questions

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32  
Qn.33 Qn.34 Qn.35 Qn.36  
Qn.37 Qn.38 Qn.39 Qn.40  
Qn.41 Qn.42 Qn.43 Qn.44

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Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x+1)^2$  is:

**Q38. / Q38.** The population of a country increased by an average of 2 percent (2% ) per year from 2000 to 2003. If the population of this country was 2 000 000 on December 31, 2003, then the population of this country on January 1, 2000, to the nearest thousand would have been

marks 3

Answer

A  1 846 000

B  1852000

C  1000000

D  1500000

Next

All questions

Qn.1 Qn.2 Qn.3 Qn.4  
Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32  
Qn.33 Qn.34 Qn.35 Qn.36  
Qn.37 Qn.38 Qn.39 Qn.40  
Qn.41 Qn.42 Qn.43 Qn.44

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Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 126$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x + D)^2$  is:

**Q39. / Q39.** The graphs of the two linear equations  $ax + by = c$  and  $bx - ay = c$ , where none of the coefficients  $a, b, c$  is equal to zero, are:

Answer

- A are parallel
- B intersect at the point (0,0)
- C intersect at two points
- D perpendicular

Next

All questions

- Qn.1 Qn.2 Qn.3 Qn.4
- Qn.5 Qn.6 Qn.7 Qn.8
- Qn.9 Qn.10 Qn.11 Qn.12
- Qn.13 Qn.14 Qn.15 Qn.16
- Qn.17 Qn.18 Qn.19 Qn.20
- Qn.21 Qn.22 Qn.23 Qn.24
- Qn.25 Qn.26 Qn.27 Qn.28
- Qn.29 Qn.30 Qn.31 Qn.32
- Qn.33 Qn.34 Qn.35 Qn.36
- Qn.37 Qn.38 Qn.39 Qn.40
- Qn.41 Qn.42 Qn.43 Qn.44

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Considered  $2^3 + 1 = 5, 3^3 + 1 = 10, 4^3 + 1 = 17, 5^3 + 1 = 126$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x + D)^2$  is:

**Q40. / Q40.** The mean of a data set is equal to 10 and its standard deviation is equal to 1. If we add 5 to each data value, then the mean and standard deviation become

Answer

- A mean = 15 , standard deviation = 6
- B mean = 10 , standard deviation = 6
- C mean = 15 , standard deviation = 1
- D mean = 10 , standard deviation = 1

Next

All questions

- Qn.1 Qn.2 Qn.3 Qn.4
- Qn.5 Qn.6 Qn.7 Qn.8
- Qn.9 Qn.10 Qn.11 Qn.12
- Qn.13 Qn.14 Qn.15 Qn.16
- Qn.17 Qn.18 Qn.19 Qn.20
- Qn.21 Qn.22 Qn.23 Qn.24
- Qn.25 Qn.26 Qn.27 Qn.28
- Qn.29 Qn.30 Qn.31 Qn.32
- Qn.33 Qn.34 Qn.35 Qn.36
- Qn.37 Qn.38 Qn.39 Qn.40
- Qn.41 Qn.42 Qn.43 Qn.44

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Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26, \dots$  will be:

Find the solution of the following system of equations

$$\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$$

Find the value of  $m$  if  $y = (x + 1)^2$  is :

**Q41. / 4 marks** Q41. Complex Numbers of the form  $Z = a + bi$  represent points in a two dimensional complex plane that are referenced to two distinct axes . Q41. A. The Horizontal axis is called and noted:

Answer

- A  Real axis Im(Z)
- B  Real axis Re(Z)
- C  Imaginary axis Im(Z)
- D  Imaginary axis Re(Z)

Next

All questions

- Qn.1 Qn.2 Qn.3 Qn.4
- Qn.5 Qn.6 Qn.7 Qn.8
- Qn.9 Qn.10 Qn.11 Qn.12
- Qn.13 Qn.14 Qn.15 Qn.16
- Qn.17 Qn.18 Qn.19 Qn.20
- Qn.21 Qn.22 Qn.23 Qn.24
- Qn.25 Qn.26 Qn.27 Qn.28
- Qn.29 Qn.30 Qn.31 Qn.32
- Qn.33 Qn.34 Qn.35 Qn.36
- Qn.37 Qn.38 Qn.39 Qn.40
- Qn.41 Qn.42 Qn.43 Qn.44

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Find the solution of the following system of equations

$$\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$$

Find the value of  $m$  if  $y = (x + 1)^2$  is :

**Q42. / 4 marks** Q41. B. The Vertical axis is called and noted:

Answer

- A  Real axis Im(Z)
- B  Real axis Re(Z)
- C  Imaginary axis Im(Z)
- D  Imaginary axis Re(Z)

Next

All questions

- Qn.1 Qn.2 Qn.3 Qn.4
- Qn.5 Qn.6 Qn.7 Qn.8
- Qn.9 Qn.10 Qn.11 Qn.12
- Qn.13 Qn.14 Qn.15 Qn.16
- Qn.17 Qn.18 Qn.19 Qn.20
- Qn.21 Qn.22 Qn.23 Qn.24
- Qn.25 Qn.26 Qn.27 Qn.28
- Qn.29 Qn.30 Qn.31 Qn.32
- Qn.33 Qn.34 Qn.35 Qn.36
- Qn.37 Qn.38 Qn.39 Qn.40
- Qn.41 Qn.42 Qn.43 Qn.44

1:26 AM 7/13/2022

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Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x + D)^2$  is:

**Q43. / 4** Q41. C. The complex number written in the form  $Z = \cos x + i \sin x$  is known as:

marks

Answer

- A Polar form
- B Algebraic or rectangular form
- C Exponential form
- D Geometric form

Next

All questions

- Qn.1 Qn.2 Qn.3 Qn.4
- Qn.5 Qn.6 Qn.7 Qn.8
- Qn.9 Qn.10 Qn.11 Qn.12
- Qn.13 Qn.14 Qn.15 Qn.16
- Qn.17 Qn.18 Qn.19 Qn.20
- Qn.21 Qn.22 Qn.23 Qn.24
- Qn.25 Qn.26 Qn.27 Qn.28
- Qn.29 Qn.30 Qn.31 Qn.32
- Qn.33 Qn.34 Qn.35 Qn.36
- Qn.37 Qn.38 Qn.39 Qn.40
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Considered  $2^2 + 1 = 5, 3^2 + 1 = 10, 4^2 + 1 = 17, 5^2 + 1 = 26$  will be:

Find the solution of the following system of equations  $\begin{cases} x + y + z = 6 \\ 2x + y - z = 1 \\ 3x + 2y + z = 10 \end{cases}$  is:

Find the value of  $m$  if  $y = (x + D)^2$  is:

**Q44. / 4** Q41. D. The modulus of the complex number  $Z = 4 - 3i$  is:

marks

Answer

- A 25
- B square root of 7
- C 5
- D -5

Next

All questions

- Qn.1 Qn.2 Qn.3 Qn.4
- Qn.5 Qn.6 Qn.7 Qn.8
- Qn.9 Qn.10 Qn.11 Qn.12
- Qn.13 Qn.14 Qn.15 Qn.16
- Qn.17 Qn.18 Qn.19 Qn.20
- Qn.21 Qn.22 Qn.23 Qn.24
- Qn.25 Qn.26 Qn.27 Qn.28
- Qn.29 Qn.30 Qn.31 Qn.32
- Qn.33 Qn.34 Qn.35 Qn.36
- Qn.37 Qn.38 Qn.39 Qn.40
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B: 13  
C: 3  
D: 12

**32. The solution set of the fol**

A:  $S = \{(3, 1, 2)\}$   
B:  $S = \{(1, 2, 3)\}$   
C:  $S = \{(2, 1, 3)\}$   
D:  $S = \{(2, 3, 1)\}$

**35. The derivative of the func**

A:  $2(x + 1)$   
B:  $x + 1$   
C:  $x^2 + 1$   
D:  $2x$

Answer

A   $6 + 8i$  and  $6 - 8i$

B   $6 + 8i$  and  $-6 - 8i$

C   $6 + 8i$  and  $-6 + 8i$

D   $-6 + 8i$  and  $-6 + 8i$

Next

Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
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Qn.33 Qn.34 Qn.35 Qn.36  
Qn.37 Qn.38 Qn.39 Qn.40  
Qn.41 Qn.42 Qn.43 Qn.44  
Qn.45 Qn.46 Qn.47 Qn.48  
Qn.49 Qn.50

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B: 13  
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D:  $S = \{(2, 3, 1)\}$

**35. The derivative of the func**

A:  $2(x + 1)$   
B:  $x + 1$   
C:  $x^2 + 1$   
D:  $2x$

marks continuous on set of real numbers R. Q46.A. The function  $f(x)$  takes:

Answer

A  Always none negative values

B  Sometimes none negative values

C  Most of the time none negative values

D  Negative values

Next

Qn.5 Qn.6 Qn.7 Qn.8  
Qn.9 Qn.10 Qn.11 Qn.12  
Qn.13 Qn.14 Qn.15 Qn.16  
Qn.17 Qn.18 Qn.19 Qn.20  
Qn.21 Qn.22 Qn.23 Qn.24  
Qn.25 Qn.26 Qn.27 Qn.28  
Qn.29 Qn.30 Qn.31 Qn.32  
Qn.33 Qn.34 Qn.35 Qn.36  
Qn.37 Qn.38 Qn.39 Qn.40  
Qn.41 Qn.42 Qn.43 Qn.44  
Qn.45 Qn.46 Qn.47 Qn.48  
Qn.49 Qn.50

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The screenshot shows a web browser window with the URL `e-recruitment.mifotra.gov.rw/applicant/applications`. The page displays a list of questions on the left and a grid of question buttons on the right. The selected question is 32, which asks for the solution set of a function. The options are A:  $S = \{(3, 1, 2)\}$ , B:  $S = \{(1, 2, 3)\}$ , C:  $S = \{(2, 1, 3)\}$ , and D:  $S = \{(2, 3, 1)\}$ . Below this, question 35 asks for the derivative of a function, with options A:  $2(x+1)$ , B:  $x+1$ , C:  $x^2+1$ , and D:  $2x$ . The answer section shows that option A is selected for question 32, with the text `y = 0, as horizontal asymptote`. A "Next" button is visible at the bottom right of the answer section. The system tray at the bottom shows the time as 1:26 AM on 7/13/2022.

The screenshot shows the same web browser window as above. The selected question is 34, which asks for the value of 'a'. The options are A: a is equal to 1, B: a is greater than and equal to 1, C: a is greater than 1, and D: None of them is correct. The answer section shows that option C is selected, with the text `a is greater than 1`. A "Next" button is visible at the bottom right of the answer section. The system tray at the bottom shows the time as 1:27 AM on 7/13/2022.



The screenshot shows a web browser window with the URL `e-recruitment.mifotra.gov.rw/applicant/applications`. The page displays a question on the left and a grid of question numbers on the right. The question text is partially visible, showing options B, C, and D, and a question number 32. The answer options are:

- A:  a is smaller than 1
- B:  a is less than and equal to 1
- C:  a is greater than 1
- D:  None of them is correct

A "Next" button is located below the answer options. The grid on the right contains question numbers from Qn. 5 to Qn. 50, with Qn. 49 and Qn. 50 highlighted in orange.

The screenshot shows the same web browser window. The question text is now fully visible, showing options B, C, and D, and a question number 32. The answer options are:

- A:  a=1 and its graph is the vertical line of equation  $y=1$
- B:  a=1 and its graph is the horizontal line of equation  $y=1$
- C:  a=1 and its graph is the horizontal line of equation  $x=1$
- D:  None of them is correct

The text "--Good Luck--" is visible below the answer options. The grid on the right remains the same, with Qn. 49 and Qn. 50 highlighted in orange.