

FBQ1: In the Quadratic Formula, , is called the _____ ;
Answer: Discriminant

FBQ2: The domain of , will be any real number except _____
Answer: -2

FBQ4: The set of all y values of a relation is called the _____
Answer: Domain

FBQ5: The set of element in $\{x \mid x \text{ is a positive even integer less than } 4\}$ is:
.....
Answer: $\{1, 2, 3\}$

FBQ7: The common ratio is _____, when the fourth term is divided by the second term is 9
Answer: 3

FBQ8: In slope-intercept form, the equation of a line passing through the point $(-3, 2)$ and parallel to $4x - y = 7$ is given as
Answer: $y = 4x + 4$

FBQ9: The distance between the points $(-3, 19)$, $(-7, -5)$ to the nearest tenth is
.....
Answer: 24.3

FBQ20: Polar form of a complex number is
Answer: $r(\cos\theta + i\sin\theta)$

FBQ21: Set that have unlimited numbers of elements are referred to as.....
Answer: infinite set

FBQ22: The radius of the circle with the equation: is _____ ;
Answer: 5

FBQ24: The cardinality of the Power set of the set $\{0, 1, 2\}$ is
Answer: 6

FBQ25: The values of x in equation is
Answer: 5 and 1

FBQ3: In terms of their elements, two sets are called disjoint if they have

Answer: no element in common

FBQ6: The centre of the circle is
Answer: $(1, -3)$

FBQ10: Power set of empty set has exactly number of subset.
Answer: Zero

FBQ11: The x intercept of $9x - 2y = 18$ is _____
Answer: $(3, 0)$

FBQ12: What is the coordinate of the y-intercept of the linear equation $9x - 2y = 18$ is.....
Answer: $(0, 2)$

FBQ13: The leading coefficient of $y = 6x^3 - 3x^2 + 4x + 5$ is
Answer: 6

FBQ14: If A and B are sets and $A \cup B = A \cap B$, then the two sets are
Answer: $A = B$

FBQ15: The intersect of the sets $\{1, 2, 5\}$ and $\{1, 2, 6\}$ is the

set.....

Answer: {1, 2}

FBQ16: The solution of a quadratic equation is sometimes called _____

Answer: Roots

FBQ17: Given the circle , the radius of the circle is.....

Answer: Zero

FBQ18: The equation of the line passing through the point (-3,7) with slope zero can be written as

Answer: $y=7$

FBQ19: The Common difference of sequence 2, -2,-6,... is

Answer: -4

FBQ23: The sum of $-5+4i+9+6i$ in standard form ($+bi$) is

Answer: $4+10i$

FBQ26: The union of the sets {1, 2, 5} and {1, 2, 6} is the set

Answer: {1, 2, 5, 6}

FBQ27: The individual objects in a set are called

Answer: Element

FBQ28: The Common difference of sequence 5,8,11,14,... is

Answer: 3

FBQ29: Collection of well-defined objects is called a

Answer: Set

FBQ30: The set of positive integers is an example ofset

Answer: Infinite

FBQ31: If $A \cup B = B \cup A$, then the sets A and B are

Answer: Commutative

FBQ32: The product of $4+i$ and $4-i$ is

Answer: 17

FBQ33: A linear system of equations made up of two intersecting lines has _____ solution(s).

Answer: 2

FBQ34: The Sum of the roots of the quadratic equation $3x^2 - 5x - 2$ is

Answer: $5/3$

FBQ35: The solutions of a quadratic equation $x^2 + 5x - 6 = 0$ are and

Answer: 1 , -6

FBQ36: In standard form $a+bi$, $3-5i--5+11i+(9+6i)$ can be reduced to

Answer: $17-10i$

FBQ37: Any set that contains a definite number of elements is called

Answer: finite set

FBQ38: One factor of the expression $8x^2 - 19x + 6$ is $x - 2$. The other is

Answer: $8x-3$

FBQ39: Expansion of $3-6i2i$ is

Answer: $-27-36i$

FBQ40: If the difference between the third term and the second term is 12, then the common difference is

Answer: 12

FBQ41: If Set $D = \{x: x \text{ is an odd number between } 10 \text{ and } 18\}$, the elements are {11,13,15,17}

FBQ42: The minimum value of is

Answer: -4

FBQ43: The numerator of the quotient $5-3i+7i$ in standard form $(a+bi)$ is

Answer: $-11-4i$

FBQ44: When $b^2-4ac < 0$, then the equation hassolution.

Answer: two complex solutions

FBQ45: The first and seventh terms of a geometric progression are 812 and 329 respectively. Hence, the common ratio is

Answer: $2/3$

FBQ46: If two sets have distinct elements, they are said to be

Answer: Disjoint

FBQ47: The slope of the linear equation $y=12x-2$ is

Answer: $2/3$

FBQ48: The slope of the linear equation $y=-14x+7$ is

Answer: $-1/4$

FBQ49: If $U=\{a,b,c,d,e\}$, $A=\{a,c,e\}$ and $B=\{a,b,e\}$, then $(A \cap B) =$

Answer: $\{a,e\}$

FBQ50: The value of i^{15} is

Answer: $-i$

MCQ1: Evaluate

Answer: 5

MCQ2: Solve for x:

Answer: $x=3$

MCQ3: Find the product of $4 + i$ and $4 - i$.

Answer: 17

MCQ4: What are the center and radius of

Answer:

MCQ5: Simply

Answer:

MCQ6: Expand

Answer: $-27 - 36i$

MCQ7: Find the next term of each sequence 4 -16, 64, -256 1024, ...

Answer: -4096

MCQ8: Find the next term of each sequence 4, 16, 36, 64, 100

Answer: 144

MCQ9: Find the next term of each sequence 4, -12, 36, -108, 324

Answer: -972

MCQ10: Expand and simplify $(2x - 1)(x + 3)$

Answer: $x^2 + 5x - 3$

MCQ11: Factorize completely . $9x^2 - 24x - 16$

Answer: $(3x - 4)^2$

MCQ12: is equal to ____

Answer:

MCQ13: Find an equation whose roots are -2 and 1.

Answer: $x^2 + x - 2 = 0$

MCQ14: When solving a linear system of equations, you are looking for which of the following?

Answer: Point(s) of intersection

MCQ15: A linear system of equations made up of two intersecting lines has _____ solution(s)

Answer: one

MCQ16: If the legs of a right triangle measure 5 and 12 cm respectively, the measure of the third side is

Answer: 13 cm

MCQ17: Which of the following is an equation of a circle?

Answer:

MCQ18: The set of all $y = f(x)$ values of a relation is called the ____.

Answer: domain

MCQ19: If a system of equations has one solution, then the equations will have ____.

Answer: different slopes

MCQ20: The solution(s) of a Quadratic Equation is/are also sometimes called ____.

Answer: root(s)

MCQ21: The function completely factorized is ____.

Answer:

MCQ22: All the solution(s) for are ____

Answer:

MCQ23: What is the Leading Coefficient of

Answer: 6

MCQ24: What is the constant of

Answer: 5

MCQ25:

Answer: 5

MCQ26: What is the y-intercept of the line determined by the linear equation

Answer:

MCQ27: What is the slope of the linear equation:

Answer:

MCQ28: Which ordered pair(s) are all the y-intercept(s) of the equation:

Answer: . $(0, 1)$

MCQ29: When is not positive?

Answer: never

Answer: 5

Answer: $(1/2)$ power

Answer :

Answer :

Answer: $11+7i$

Answer: -6

Answer :

Answer: 5 and 1 only

Answer: 24.3

Answer: 4

Answer: $A=B$

Answer: $\{1, 2, 5, 6\}$

Answer: $\{1, 2\}$

Answer: intersection

Answer: $\{1, 3, 5\}$ and $\{2, 4, 6\}$

Answer: element not in A but in the universal set

Answer: element

Answer: $\{11, 13, 15, 17\}$

Answer: $r(\cos\theta + i\sin\theta)$

Answer: $(a+ib)(a-ib)$

MCQ50: The solution of a quadratic equation $x^2 + 5x - 6 = 0$ is

Answer: $x=1, x=-6$