

FBQ1: In the Quadratic Formula, $b^2 - 4ac$ is called the _____

Answer: Discriminant

FBQ2: The domain of $y = \sqrt{x+2}$ 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: $x^2 + y^2 = 25$ 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 $x^2 - 5x + 4 = 0$ 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 $x^2 + y^2 - 4x + 6y - 12 = 0$ is _____

Answer: $(2, -3)$

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 $A \cap B = A \cap B$, 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 of _____ set

Answer: Infinite

FBQ31: If $A \cap B = B \cap A$, 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 $3-6i$ 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

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

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 has two complex solutions.

Answer: two complex solutions

FBQ45: The first and seventh terms of a geometric progression are 812 and 329 respectively. Hence, the common ratio is $\frac{2}{3}$.

Answer: $\frac{2}{3}$

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

Answer: Disjoint

FBQ47: The slope of the linear equation $y = 12x - 2$ is $\frac{2}{3}$.

Answer: $\frac{2}{3}$

FBQ48: The slope of the linear equation $y = -14x + 7$ is $-\frac{1}{4}$.

Answer: $-\frac{1}{4}$

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

$= \{a, e\}$

Answer: $\{a, e\}$

FBQ50: The value of i^{15} is $-i$.

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 _____.&A

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 $\hat{A}$

Answer: 5

MCQ25: $\hat{A}$

Answer: 5

MCQ26: $\hat{A}$ What is the y-intercept of the line determined by the linear equation $\hat{A}$

Answer:

MCQ27: What is the slope of the linear equation: $\hat{A}$

Answer:

MCQ28: $\hat{A}$ Which ordered pair(s) are all the y-intercept(s) of the equation:

Answer: . (0,1)

MCQ29: When is not positive? $\hat{A}$

Answer: never

MCQ30: $\hat{A}$ What is the radius of the circle graphed by the equation: $\hat{A}$

Answer: 5

MCQ31: $\hat{A}$ The square root of a number is the same as raising the number to the

Answer: (1/2) power

MCQ32: $\hat{A}$ The x intercept of is _____. $\hat{A}$

Answer:

MCQ33: The domain of, will be any real number _____.

Answer:

MCQ34: $\hat{A}$ Expand and express your answer in simplest complex form.

Answer: $11+7i$

MCQ35: $\hat{A}$ What is the minimum value of

Answer: -6

MCQ36: Solve: . ;

Answer:

MCQ37: Solve for x. . $\hat{A}$

Answer: 5 and 1 only

MCQ38: Approximate the distance between the points (-3, 19), (-7, -5) to the nearest tenth: $\hat{A}$

Answer: 24.3

MCQ39: The number of elements in the Power set $P(S)$ of the set $S=\{[\hat{a}^{\wedge} \dots], 1, [2,3]\}$

is

Answer: 4

MCQ40: If A and B are sets and $A \hat{=} B = A \hat{\cap} B$, then $\hat{A}$

Answer: $A=B$

MCQ41: The union of the sets $\{1,2,5\}$ and $\{1,2,6\}$ is the set $\hat{A}$

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

MCQ42: The intersection of the sets $\{1,2,5\}$ and $\{1,2,6\}$ is the set $\hat{\cap}$

Answer: $\{1,2\}$

MCQ43: $\hat{A}$ Two sets are called disjoint if their $\hat{\cap}$ is empty set. $\hat{A}$

Answer: intersection

MCQ44: $\hat{A}$ Which of the following two sets are disjoint?

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

MCQ45: $\hat{A}$ The complement of the set A is $\hat{\cap}$..

Answer: element not in A but in the universal set

MCQ46: $\hat{A}$ Individual objects in a set are called $\hat{\cap}$..

Answer: element

MCQ47: $\hat{A}$ Set $\{x: x \text{ is an odd number between } 10 \text{ and } 18\}$

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

MCQ48: $\hat{A}$ Polar form of a complex number is $\hat{\cap}$

Answer: $r(\cos \hat{I} + i \sin \hat{I})$

MCQ49: $a^2 + b^2$ is equal to $\hat{\cap}$

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

MCQ50: $\hat{A}$ The solution of a quadratic equation $x^2 + 5x \hat{=} 6 = 0$ is

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