FBQ1: In the Quadratic Formula, , is called the \_\_\_\_\_\_&nbsp;

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 | x 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(cosθ+isinθ)

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 \_\_\_\_\_\_\_\_\_\_&nbsp;

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=6x3-3x2+4x+5 is …………………………

Answer: 6

FBQ14: If A and B are sets and A ∪ B =A ∩ 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∪B=B∪A, then the sets A and B are …………….

Answer: Commutative

FBQ32: The product of 4+iand 4-iis …………………………….

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 3x2 -5x -2 is ……………………….

Answer: 5/3

FBQ35: The solutions of a quadratic equation x2 + 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 8x2 – 19x + 6 is x -2. The other is ………………..

Answer: 8x-3

FBQ39: Expansion of 3-6i2is …………………………………………………..

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 is an odd number between 10 and 18}, the elements

Answer: {11,13,15,17}

FBQ42: The minimum value of is ………………………&nbsp;

Answer: -4

FBQ43: The numerator of the quotient 5-3i2+ 7iin standard form (a+ bi) is …………..

Answer: -11-4i

FBQ44: When b2-4ac&lt;0, then the equation has …………………………………solution.

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 equationy=-14x+7is ……………

Answer: -1/4

FBQ49: If U={a,b,c,d,e}, A={a,c,e} and B={a,b,e}, then (A∩B) =……………………

Answer: {a,e}

FBQ50: The value of i15is …………………………………………..

Answer: -i

MCQ1: &nbsp;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: x2+5x-3

MCQ11: Factorize completely . 9x2-24x-16

Answer: (3x-4)2

MCQ12: is equal to \_\_\_\_

Answer:

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

Answer: x2+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: domian

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: &nbsp;The function completely factorized is \_\_\_\_\_.&nbsp;

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

MCQ30:  What is the radius of the circle graphed by the equation:

Answer: 5

MCQ31:  The square root of a number is the same as raising the number to the

Answer: (1/2) power

MCQ32:  The x intercept of is \_\_\_\_\_.

Answer:

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

Answer:

MCQ34:  Expand and express your answer in simplest complex form.

Answer: 11+7i

MCQ35:  What is the minimum value of

Answer: -6

MCQ36: Solve: .&nbsp;

Answer:

MCQ37: Solve for x. .

Answer: 5and 1 only

MCQ38: Approximate the distance between the points (-3, 19), (-7, -5) to the nearest tenth:

Answer: 24.3

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Answer: 4

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Answer: A=B

MCQ41: The union of the sets {1,2,5} and {1,2,6} is the set ................

Answer: {1,2,5,6}

MCQ42: The intersection of the sets {1,2,5} and {1,2,6} is the set ……………

Answer: {1,2}

MCQ43:  Two sets are called disjoint if their ………….. is empty set.

Answer: intersection

MCQ44:  Which of the following two sets are disjoint?

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

MCQ45:  The complement of the set A is ………..

Answer: element not in A but in the universal set

MCQ46:  Individual objects in a set are called …………..

Answer: element

MCQ47:  Set {x: x is an odd number between 10 and 18}

Answer: {11,13,15,17}

MCQ48:  Polar form of a complex number is …………………

Answer: r(cosθ+ isinθ)

MCQ49: a2 + b2 is equal to ……………

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

MCQ50:  The solution of a quadratic equation x2 + 5x – 6 = 0 is

Answer: x=1,x=-6