

The common ratio is, when the fourth term is divided by the second term is 9
*3* 1.0000000
0.0000000 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 â€lâ€lâ€lâ€lâ€l
*y=4x+4* 1.0000000
0.0000000 FBQ9 The distance between the points (-3, 19), (-7, -5) to the nearest tenth is …………
*24.3* 1.0000000
0.0000000 FBQ10 Power set of empty set has exactly …………………… number of subset.
*Zero* 1.0000000 *0* 1.0000000 FBQ11 The x intercept of 9x-2y=18 is
*(3,0)* 1.0000000
0.0000000 FBQ12 What is the coordinate of the y-intercept of the linear equation 9x-2y=18 is…………
*(0,2)* 1.0000000
0.0000000 FBQ13 The leading coefficient of y=6x3-3x2+4x+5 is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l
*6* 1.0000000

0.0000000 FBQ14 If A and B are sets and A â<sup>a</sup> B =A â<sup>©</sup> B, then the two sets are â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l \*A=B\* 1.0000000 \*Equal\* 1.0000000 FBQ15 The intersect of the sets {1,2,5} and {1,2,6} is the set ...... \*{1, 2}\* 1.0000000 0.0000000 FBQ16 The solution of a quadratic equation is sometimes called \_\_\_\_\_ \*Roots\* 1.0000000 0.0000000 FBQ17 \*Zero\* 1.0000000 \*0\* 1.0000000 FBQ18 The equation of the line passing through the point (-3,7) with slope zero can be written as â€lâ€lâ€lâ€lâ€lâ€l \*v=7\* 1.0000000 0.0000000 FBQ19 The Common difference of sequence 2,-2,-6,â€l is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l \*-4\* 1.0000000 0.0000000 FBQ20 The complex number is represented by â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l \*x+iy\*

1.0000000 0.0000000 FBQ21 Set that have unlimited numbers of elements are referred to as……………. \*infinite set\* 1.0000000 0.0000000 FBQ22 The radius of the circle with the equation: is \_\_\_\_\_\_ \*5\* 1.0000000 0.0000000 FBQ23 The sum of -5+ 4i+9+ 6i in standard form ( + bi) is â€lâ€lâ€lâ€lâ€lâ€l... \*4+10i\* 1.0000000 0.0000000 FBQ24 \*6\* 1.0000000 0.0000000 FBQ25 The values of x in equation is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l \*5 and 1\* 1.0000000 \*1 and 5\* 1.0000000 FBQ26 The union of the sets {1,2,5} and {1,2,6} is the set ...... \*{1, 2, 5, 6}\* 1.0000000 1.0000000 FBQ27 

\*element\*

```
1.0000000
*member*
1.0000000
FBQ28
The Common difference of sequence 5,8,11,14,… is
*3*
1.0000000
0.0000000
FBQ29
Collection of well-defined objects is called a â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l...
*set*
1.0000000
0.0000000
FBQ30
The set of positive integers is an example of â€lâ€lâ€lâ€lâ€lâ€l set
*infinite*
1.0000000
0.0000000
FBQ31
If Aâ<sup>a</sup>B=Bâ<sup>a</sup>A, then the sets A and B are â€lâ€lâ€lâ€lâ€l.
*commutative*
1.0000000
0.0000000
FBQ32
The product of 4+iand 4-iis â€lâ€lâ€lâ€lâ€lâ€l
*17*
1.0000000
0.0000000
FBQ33
A linear system of equations made up of two intersecting lines has _____ solution(s)
*2*
1.0000000
*two*
1.0000000
FBQ34
```

The Sum of the roots of the quadratic equation 3x2 -5x -2 is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l

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*5/3*
1.0000000
*1.667*
1.0000000
FBQ35
The solutions of a quadratic equation x2 + 5x â€" 6 = 0 are ……………. and
â€lâ€lâ€lâ€lâ€lâ€l
*1,-6*
1.0000000
*-6, 1*
1.0000000
*1 and -6*
1.0000000
*-6 and 1*
1.0000000
FBQ36
In standard form a+ bi, 3- 5i--5+ 11i+(9+ 6i) can be reduced to â€l.
*17-10i*
1.0000000
0.0000000
FBQ37
Any set that contains a definite number of elements is called â€lâ€lâ€lâ€lâ€lâ€lâ€l.
*finite set*
1.0000000
*finite*
1.0000000
FBQ38
One factor of the expression 8x2 â€" 19x + 6 is x -2. The other is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l...
*8x-3*
1.0000000
*-3+8x*
1.0000000
FBQ39
Expansion of 3-6i2is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l
*-27-36i*
```

1.0000000 0.0000000 FBQ40 If the difference between the third term and the second term is 12, then the common difference is â€lâ€lâ€lâ€lâ€lâ€lâ€l... \*12\* 1.0000000 0.0000000 FBQ41 If Set D =  $\{x: x \text{ is an odd number between 10 and 18}\}$ , the elements \*{11,13,15,17}\* 1.0000000 0.0000000 FBQ42 The minimum value of is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l \*-4\* 1.0000000 0.0000000 FBQ43 The numerator of the quotient 5-3i2+ 7i in standard form (a+ bi) is â€lâ€lâ€lâ€l... \*-11-4i\* 1.0000000 0.0000000 FBQ44 When b2-4ac<0, then the equation has â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lsolution. \*two complex \* 1.0000000 \*2 complex \* 1.0000000 FBQ45 The first and seventh terms of a geometric progression are 812 and 329 respectively. Hence, the common ratio is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l \*2/3\* 1.0000000 \*0.667\* 1.0000000

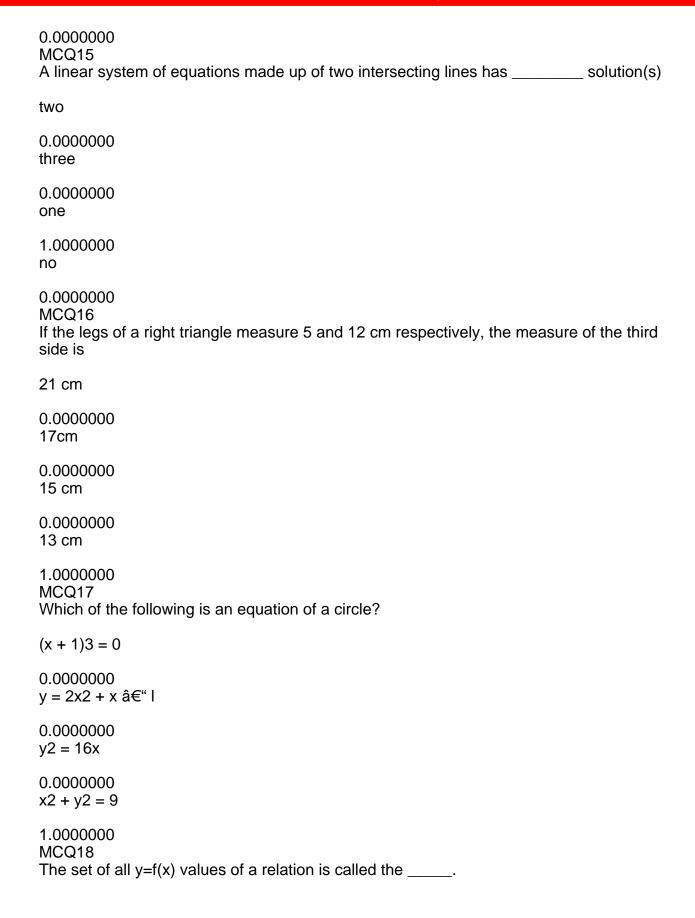
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FBQ46
*disjoint*
1.0000000
0.0000000
FBQ47
The slope of the linear equation y=12x-2 is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l
*2/3*
1.0000000
*0.5*
1.0000000
FBQ48
The slope of the linear equationy=-14x+7 is â€lâ€lâ€lâ€lâ€l
*-1/4*
1.0000000
*-0.25*
1.0000000
FBQ49
If U={a,b,c,d,e}, A={a,c,e} and B={a,b,e}, then (Aâ^©B)=â€lâ€lâ€lâ€lâ€lâ€lâ€l
*{a,e}*
1.0000000
0.0000000
FBQ50
The value of i15is â€lâ€lâ€lâ€lâ€lâ€lâ€lâ€lâ€l
*-i*
1.0000000
0.0000000
Multiple Choice Questions (MCQs)
MCQ1
Evaluate
5
1.0000000
34
0.0000000
0.0000000
```

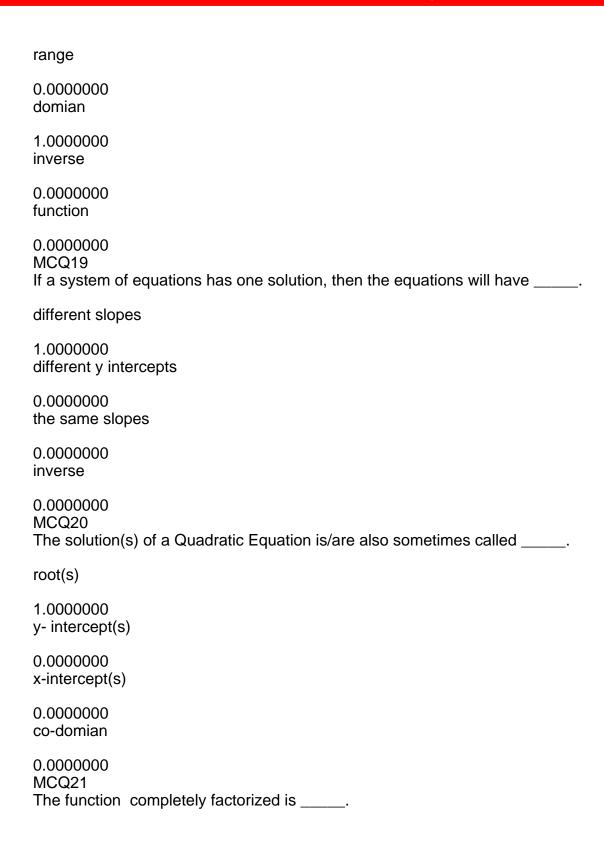
```
0.0000000
MCQ2
x=3
1.0000000
x=-1
0.0000000
x=-3
0.0000000
x = -9
0.0000000
MCQ3
Find the product of 4 + i and 4 â€" i.
15
0.0000000
15
0.0000000
17
1.0000000
10
0.0000000
MCQ4
What are the center and radius of ?
0.0000000
0.0000000
1.0000000
0.0000000
MCQ5
Simply
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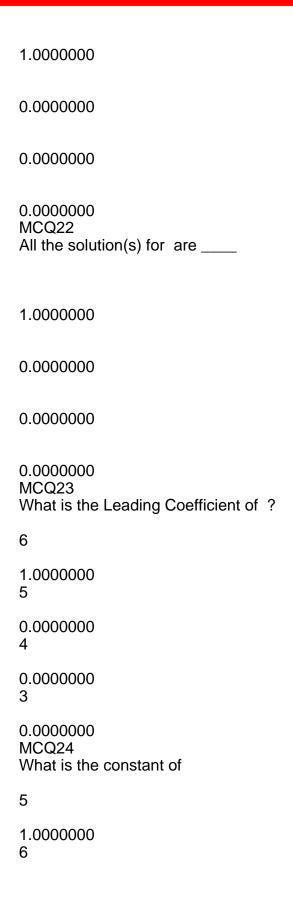
```
1.0000000
0.0000000
0.0000000
0.0000000
MCQ6
Expand
-27 - 36i
1.0000000
9 + 36i
0.0000000
45
0.0000000
27
0.0000000
MCQ7
Find the next term of each sequence 4 -16, 64, -256 1024, …
-4096
1.0000000
-20058
0.0000000
-1281
0.0000000
-3072
0.0000000
MCQ8
Find the next term of each sequence 4, 16, 36, 64, 100
169
0.0000000
```

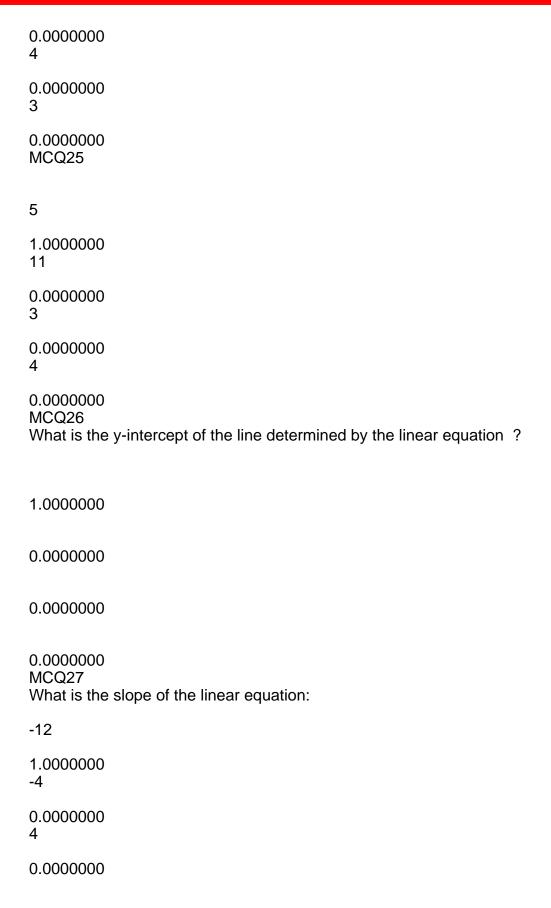
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144
1.0000000
164
0.0000000
124
0.0000000
MCQ9
Find the next term of each sequence 4, -12, 36, -108, 324
-972
1.0000000
- 625
0.0000000
-648
0.0000000
-169
0.0000000
MCQ10
Expand and simplify (2x - 1)(x + 3)
x2+x-5
0.0000000
x2+2x-6
0.0000000
x2+3x-1
0.0000000
x2+5x-3
1.0000000
MCQ11
Factorize completely. 9x2-24x-16
(3x-4)2
1.0000000
(9x-4)(x-4)
0.0000000
(3x-8)(3x-2)
```

```
0.0000000
(x-8)(9x-2)
0.0000000
MCQ12
(x-3)2 is equal to _____
x2 â€" 6 x + 9
1.0000000
x2 – 9
0.0000000
x2 + 9
0.0000000
x^2 + 6x + 9
0.0000000
MCQ13
Find an equation whose roots are -2 and 1.
x2+x-2=0
1.0000000
x2+2x-2=0
0.0000000
x2-x-2=0
0.0000000
x2-2x-2=0
0.0000000
MCQ14
When solving a linear system of equations, you are looking for which of the following?
Point(s) of intersection
1.0000000
x intercepts
0.0000000
Roots
0.0000000
Shaded region
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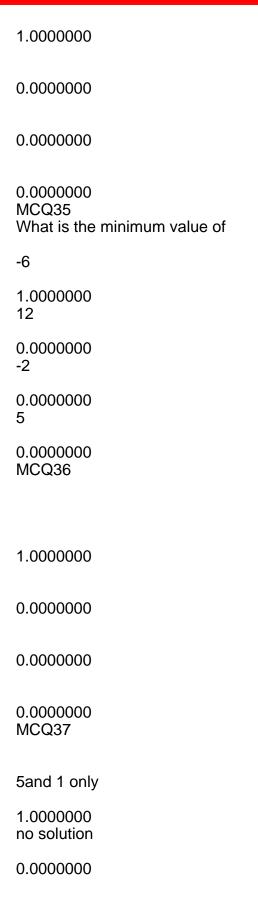






```
-12
0.0000000
MCQ28
Which ordered pair(s) are all the y-intercept(s) of the equation:
(0,1)
1.0000000
(0,0)
0.0000000
(1,0)
0.0000000
(0,-1) and (0,2)
0.0000000
MCQ29
never
1.0000000
x = -1
0.0000000
x = -4
0.0000000
x = 0
0.0000000
MCQ30
What is the radius of the circle graphed by the equation:
5
1.0000000
25
0.0000000
0.0000000
16
0.0000000
MCQ31
```

The square root of a number is the same as raising the number to the ------(1/2) power 1.0000000 second power 0.0000000 (1/3) power 0.0000000 Third power 0.0000000 MCQ32 The x intercept of 2x â€" 3y = 6 is \_\_\_\_\_ (3,0)1.0000000 (0,-2)0.0000000 (0,-3)0.0000000 (-3,0)0.0000000 MCQ33 The domain of, will be any real number \_\_\_\_\_. except – 2 1.0000000 except – 3 0.0000000 except 2 0.0000000 except – 1 0.0000000 MCQ34 Expand and express your answer in simplest complex form (3 + 5i)(2 â€" i)



```
1only
0.0000000
5 only
0.0000000
MCQ38
Approximate the distance between the points (-3, 19), (-7, -5) to the nearest tenth:
24.3
1.0000000
17.2
0.0000000
5.3
0.0000000
6.3
0.0000000
MCQ39
The number of elements in the Power set P(S) of the set S=\{[\hat{a}^{2},...], 1, [2,3]\}
is
4
1.0000000
0.0000000
0.0000000
0.0000000
MCQ40
A=B
1.0000000
A=â^...
0.0000000
B=â^...
```

```
0.0000000
A≠B
0.0000000
MCQ41
The union of the sets \{1,2,5\} and \{1,2,6\} is the set .....
{1,2,5,6}
1.0000000
{1,2,1,2}
0.0000000
{1,5,6,3}
0.0000000
{1,2,6,1}
0.0000000
MCQ42
The intersection of the sets {1,2,5} and {1,2,6} is the set â€lâ€lâ€lâ€lâ€lâ€l
{1,2}
1.0000000
{5,6}
0.0000000
{2,5}
0.0000000
{1,6}
0.0000000
MCQ43
Two sets are called disjoint if their â€lâ€lâ€lâ€l.. is empty set.
intersection
1.0000000
complement
0.0000000
Difference
0.0000000
Union
0.0000000
```

```
MCQ44
Which of the following two sets are disjoint?
{1,3,5}and{2,4,6}
1.0000000
{1,3,5}and{2,3,4}
0.0000000
{1,2,3,}and{1,2,3}
0.0000000
{1,3,5}and{1,3,6,}
0.0000000
MCQ45
The complement of the set A is â€lâ€lâ€l..
element not in A but in the universal set
1.0000000
Universal set union A
0.0000000
some of the element in A
0.0000000
Α
0.0000000
MCQ46
Individual objects in a set are called â€lâ€lâ€lâ€l...
element
1.0000000
set
0.0000000
list
0.0000000
not element
0.0000000
MCQ47
Set {x: x is an odd number between 10 and 18}
{11,13,15,17}
```

```
1.0000000
{12,14,16,18}
0.0000000
{12,16,15,13}
0.0000000
{11,12,13,15,17}
0.0000000
MCQ48
Polar form of a complex number is â€lâ€lâ€lâ€lâ€lâ€lâ€l
r(cosî, + isinî,)
1.0000000
r(sinî, + icosî,)
0.0000000
r(secî, + icosecî,)
0.0000000
r(tanî, + icotî,)
0.0000000
MCQ49
a2 + b2 is equal to â€lâ€lâ€lâ€lâ€l
(a+ib)(a-ib)
1.0000000
(a+ib)(a-b)
0.0000000
(a+ib)(a-ib)
0.0000000
(a+b)(a-b)
0.0000000
MCQ50
The solution of a quadratic equation x^2 + 5x \hat{a} \in 6 = 0 is
x=1, x=-6
1.0000000
x=1, x=0
```

0.0000000 x= 5, x=2

0.0000000 x= -1, x=3

0.000000