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Default for MTH101
The default category for questions shared in context 'MTH101'.
Fill in the Blank (FBQs)
FBQ1
*Discriminant*
1.0000000
0.0000000

FBQ2
*-2*
1.0000000
0.0000000
0.0000000

FBQ3
In terms of their elements, two sets are called disjoint if they have $\qquad$
*no element in common*
1.0000000
0.0000000

FBQ4
The set of all $y$ values of a relation is called the $\qquad$
*Domain*
1.0000000
0.0000000

FBQ5
The set of element in $\{x \mid x$ is a positive even integer less than 4$\}$ is:

* $\{1,2,3\}^{*}$
1.0000000
0.0000000

FBQ6
The centre of the circle is â $€_{\mid} \hat{a} €_{\mid}\left|\hat{} \not €_{\mid}\right| \hat{a} €_{\mid}\left|\hat{a} €_{\mid} a \hat{} €_{\mid}\right| \hat{a} €_{\mid}^{\prime}$
*(1,-3)*
1.0000000
0.0000000

FBQ7

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The common ratio is $\qquad$ , 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


* $y=4 x+4$ *
1.0000000
0.0000000

FBQ9
The distance between the points $(-3,19),(-7,-5)$ to the nearest tenth is â $\left.\oint_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{} €_{\mid}\right|_{\mid .}$.
*24.3*
1.0000000
0.0000000

FBQ10

*Zero*
1.0000000
*0*
1.0000000

FBQ11
The $x$ intercept of $9 x-2 y=18$ is $\qquad$
*(3,0)*
1.0000000
0.0000000

FBQ12
What is the coordinate of the $y$-intercept of the linear equation $9 x-2 y=18$

*(0,2)*
1.0000000
0.0000000

FBQ13


## *6*

1.0000000

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0.0000000

FBQ14


* $\mathrm{A}=\mathrm{B}^{*}$
1.0000000
*Equal*
1.0000000

FBQ15
The intersect of the sets $\{1,2,5\}$ and $\{1,2,6\}$ is the set $\qquad$
*\{1, 2\}*
1.0000000
0.0000000

FBQ16
The solution of a quadratic equation is sometimes called $\qquad$
*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€|â€|â€|â€|â€|â€|â€

* $y=7^{*}$
1.0000000
0.0000000

FBQ19

*-4*
1.0000000
0.0000000

FBQ20
The complex number is represented by â€ $\left.\right|_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{} €_{\mid}\left|a ̂ €_{\mid}\right| \hat{} €_{\mid}^{\mid}$
*x+iy*

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1.0000000
0.0000000

FBQ21
Set that have unlimited numbers of elements are referred to asâ $€_{\mid} \hat{a} €|\hat{a} €| a ̂ €_{\mid} \hat{a} €_{\mid}$.
*infinite set*
1.0000000
0.0000000

FBQ22
The radius of the circle with the equation: is $\qquad$
*5*
1.0000000
0.0000000

FBQ23
The sum of $-5+4 i+9+6 i$ in standard form ( + bi) is $\hat{a} €|\hat{a} €| \hat{a} €|\hat{a} €| \hat{a} € \mid .$.
*4+10i*
1.0000000
0.0000000

FBQ24

*6*
1.0000000
0.0000000

FBQ25

*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 $\qquad$
*\{1, 2, 5, 6\}*
1.0000000
1.0000000

FBQ27

*element*

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1.0000000
*member*
1.0000000

FBQ28
The Common difference of sequence $5,8,11,14, \hat{a} €_{\mid}^{\mid}$is
*3*
1.0000000
0.0000000

FBQ29

*set*
1.0000000
0.0000000

FBQ30
The set of positive integers is an example of $\hat{a} €_{\mid} \hat{a} €_{\mid}^{\mid} \hat{} €_{\mid}^{\prime} \hat{a} €_{\mid} \hat{a} €_{\mid} \mid \hat{a} €_{\mid}^{\prime}$ set
*infinite*
1.0000000
0.0000000

FBQ31
If $A \hat{a}^{\wedge} \underline{B} B=B \hat{a}^{\wedge}-A$, then the sets $A$ and $B$ are $\hat{a} €_{\mid}|\hat{a} €| a ̂ €|a ̂ €| a ̂ € \mid$.
*commutative*
1.0000000
0.0000000

FBQ32
The product of 4+iand 4-iis â€ ${ }_{\mid}$â $€_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid} \hat{a} €\right| a ̂ € \mid$
*17*
1.0000000
0.0000000

FBQ33
A linear system of equations made up of two intersecting lines has $\qquad$ solution(s)
*2*
1.0000000
*two
1.0000000

FBQ34

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*5/3*
1.0000000
*1.667*
1.0000000

FBQ35
The solutions of a quadratic equation $\times 2+5 x \hat{a} €^{\prime \prime} 6=0$ are $\hat{€} €_{\mid} \hat{a} €_{\mid}\left|\hat{a} \not €_{\mid}\right| \hat{a} \epsilon_{\mid} \mid \hat{a} \epsilon_{\mid}$. and

*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 $\epsilon_{\mid}$.
*17-10i*
1.0000000
0.0000000

FBQ37
Any set that contains a definite number of elements is called $\left.\hat{a} €_{\mid} \hat{a} \notin|\hat{a} \notin| a \hat{a} \nmid a \hat{a}\right\}_{\mid} \hat{a} €_{\mid}$.

## *finite set*

1.0000000
*finite*
1.0000000

FBQ38

*8x-3*
1.0000000
*- $3+8 x^{*}$
1.0000000

FBQ39
Expansion of 3-6i2is â€ $\left|\hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid}\right| \hat{a} €_{\mid} \hat{a} \epsilon_{\mid}$
*-27-36i*

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1.0000000
0.0000000

FBQ40
If the difference between the third term and the second term is 12 , then the common difference is â$€_{\mid}\left|\hat{} €_{\mid}\right| a ̂ €_{\mid}|a ̂ €| a ̂ €|a ̂ €| a ̂ €_{\mid}^{\prime} .$.
*12*
1.0000000
0.0000000

FBQ41
If Set $D=\{x: x$ is an odd number between 10 and 18$\}$, the elements
*\{11,13,15,17\}*
1.0000000
0.0000000

FBQ42

*-4*
1.0000000
0.0000000

FBQ43
The numerator of the quotient $5-3 i 2+7 i$ in standard form (a+bi) is â $€_{\mid}^{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid}^{\mid a ̂} €_{\mid .}$.
*-11-4i*
1.0000000
0.0000000

FBQ44
When b2-4ac<0, then the equation has â€ $\left|\hat{a} €_{\mid}\right| \hat{} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{a} €_{\mid} \hat{a} €_{\mid} \mid \hat{a} €_{\mid}^{\prime}$ solution.
*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€ ${ }_{l} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{a} €_{\mid}^{\mid}$
*2/3*
1.0000000
*0.667*
1.0000000

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FBQ46

*disjoint*
1.0000000
0.0000000

FBQ47

*2/3*
1.0000000
*0.5*
1.0000000

FBQ48
The slope of the linear equationy=-14x+7 is â $€_{\mid} \hat{a} €|a ̂ €| a ̂ €|a ̂ €|$
*-1/4*
1.0000000
*-0.25*
1.0000000

FBQ49


* $\{\mathrm{a}, \mathrm{e}\}^{*}$
1.0000000
0.0000000

FBQ50
The value of i15is â€ $\left.\right|_{\mid} \hat{a} €_{\mid}$â $€_{\mid} \hat{a} €_{\mid}|\hat{a} €| a ̂ €|a ̂ €| a ̂ € \mid$
*-i*
1.0000000
0.0000000

Multiple Choice Questions (MCQs)
MCQ1
Evaluate

5
1.0000000

34
0.0000000

7
0.0000000

8

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```
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.
1 5
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
4 5
0.0000000
27
0.0000000
MCQ7
Find the next term of each sequence 4-16, 64, -256 1024, â€
-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
1 6 9
0 . 0 0 0 0 0 0 0
```


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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 $(2 x-1)(x+3)$
$x 2+x-5$
0.0000000
x2+2x-6
0.0000000
$x 2+3 x-1$
0.0000000
x2+5x-3
1.0000000

MCQ11
Factorize completely. $9 x 2-24 x-16$
$(3 x-4) 2$
1.0000000
$(9 x-4)(x-4)$
0.0000000
$(3 x-8)(3 x-2)$

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```
0.0000000
(x-8)(9x-2)
0.0000000
MCQ12
(x-3)2 is equal to
```

$\qquad$

```
x2 â€" 6x+9
1.0000000
x2 â€"9
0.0000000
x2 +9
0.0000000
x2 + 6 x + 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 . 0 0 0 0 0 0 0
Shaded region
```


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0.0000000

MCQ15
A linear system of equations made up of two intersecting lines has $\qquad$ solution(s)
two
0.0000000
three
0.0000000
one
1.0000000
no
0.0000000

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

21 cm
0.0000000

17 cm
0.0000000

15 cm
0.0000000

13 cm
1.0000000

MCQ17
Which of the following is an equation of a circle?
$(x+1) 3=0$
0.0000000
$y=2 x 2+x$ â€"।
0.0000000
$y 2=16 x$
0.0000000
$x 2+y 2=9$
1.0000000

MCQ18
The set of all $\mathrm{y}=\mathrm{f}(\mathrm{x})$ values of a relation is called the $\qquad$ .

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range
0.0000000
domian
1.0000000
inverse
0.0000000
function
0.0000000

MCQ19
If a system of equations has one solution, then the equations will have $\qquad$ .
different slopes
1.0000000
different y intercepts
0.0000000
the same slopes
0.0000000
inverse
0.0000000

MCQ20
The solution(s) of a Quadratic Equation is/are also sometimes called $\qquad$ .
root(s)
1.0000000
y- intercept(s)
0.0000000
x-intercept(s)
0.0000000
co-domian
0.0000000

MCQ21
The function completely factorized is $\qquad$ .

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```
1.0000000
0.0000000
0.0000000
0.0000000
MCQ22
All the solution(s) for are
```

$\qquad$

```
1.0000000
0.0000000
0.0000000
0.0000000
MCQ23
What is the Leading Coefficient of ?
6
1.0000000
5
0.0000000
4
0.0000000
3
0.0000000
MCQ24
What is the constant of
5
1.0000000
6
```


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0.0000000

4
0.0000000

3
0.0000000

MCQ25

## 5

1.0000000

11
0.0000000

3
0.0000000

4
0.0000000

MCQ26
What is the $y$-intercept of the line determined by the linear equation ?
1.0000000
0.0000000
0.0000000
0.0000000

MCQ27
What is the slope of the linear equation:
-12
1.0000000
-4
0.0000000

4
0.0000000

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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

4
0.0000000

16
0.0000000

MCQ31

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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 $2 x a ̂ €^{\prime \prime} 3 y=6$ is $\qquad$
$(3,0)$
1.0000000
(0,-2)
0.0000000
(0,-3)
0.0000000
(-3,0)
0.0000000

MCQ33
The domain of, will be any real number
except â€" 2
1.0000000
except ấ" 3
0.0000000
except 2
0.0000000
except â€" 1
0.0000000

MCQ34
Expand and express your answer in simplest complex form ( $3+5 \mathrm{i}$ )(2 $2 \mathrm{e} \mathrm{E}^{\text {" }}$ )

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1.0000000
0.0000000
0.0000000
0.0000000

MCQ35
What is the minimum value of
-6
1.0000000

12
0.0000000
-2
0.0000000

5
0.0000000

MCQ36
1.0000000
0.0000000
0.0000000
0.0000000

MCQ37

5and 1 only
1.0000000
no solution
0.0000000

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```
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={[a^^...], 1, [2,3]}
is
4
1.0000000
2
0.0000000
8
0.0000000
6
0.0000000
MCQ40
If A and B are sets and A â`= B =A â^` B, then
A=B
1.0000000
A=â`...
0.0000000
B=â`...
```


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0.0000000

Aâ\%。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 $\hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid} \hat{a} €_{\mid}^{\mid}$
\{1,2\}
1.0000000
$\{5,6\}$
0.0000000
$\{2,5\}$
0.0000000
$\{1,6\}$
0.0000000

MCQ43
Two sets are called disjoint if their $\hat{a} \notin|\hat{a} €| \hat{} \nmid €|\hat{} \nmid €| .$. is empty set.
intersection
1.0000000
complement
0.0000000

Difference
0.0000000

Union
0.0000000

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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 $\left.\hat{a} €_{\mid} \mid \hat{} \nmid\right\}|a ̂ €| .$.
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

A
0.0000000

MCQ46
Individual objects in a set are called â€ $€_{\mid} \hat{\nmid} €_{\mid} \hat{a} €_{\mid} \mid \hat{a} €_{\mid} \cdot$.
element
1.0000000
set
0.0000000
list
0.0000000
not element
0.0000000

MCQ47
Set $\{\mathrm{x}: \mathrm{x}$ is an odd number between 10 and 18$\}$
$\{11,13,15,17\}$

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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€ ${ }_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{a} €_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{} €_{\mid} \mid$
$r\left(\cos \hat{I}_{s}+i \sin \hat{I}_{s}\right)$
1.0000000
$\mathrm{r}\left(\sin \hat{l}_{s}+\mathrm{i} \cos \hat{l}_{s}\right)$
0.0000000
r(secî ${ }_{s}+$ icosec $\left._{s}\right)$
0.0000000
$r\left(\tan \hat{I}_{s}+i \cot \hat{I}_{s}\right)$
0.0000000

MCQ49
a2 + b2 is equal to â $€_{\mid} \hat{a} €_{\mid}\left|\hat{a} €_{\mid}\right| \hat{} €_{\mid} \mid a ̂ €_{\mid}$
(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 $x 2+5 x$ â€" $6=0$ is
$x=1, x=-6$
1.0000000
$x=1, x=0$

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0.0000000
$x=5, x=2$
0.0000000
$x=-1, x=3$
0.0000000

