

1). Circle the values listed below that are irrational:

9/11 $\sqrt{10}$ $\sqrt{9}$

5. $\bar{4}$ 3π $\sqrt{16}$

Explain why they are irrational.

2). Place the values listed below in ascending order:

$(-2/8)^2$, $\sqrt{17}$, $-12/-3$, π

$1/4$, $(3)^{-2}$, $(-1)^8$, $\sqrt{4}$

3). Fill in the chart below

fraction	decimal	percent
1/6		
	0. $\bar{3}$	
		320%
3/4		
	0. $\overline{22}$	
		0.05%

4). Compare using <, >, =

π _____ $9/3$

0.4 _____ $0.\bar{4}$

$2/8$ _____ 0.250

2^{-3} _____ $1/7$

5). Simplify using exponents:

$2^3 \times 2^2 =$

$5^5 \div 5^4 =$

6). Write the standard numerical value for:

$0.47 \times 10^7 =$

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6). Continued

$95 \times 10^{-3} =$

In 2019, the U.S. produced 14.42 billion bushels of corn. Express this amount using scientific notation.

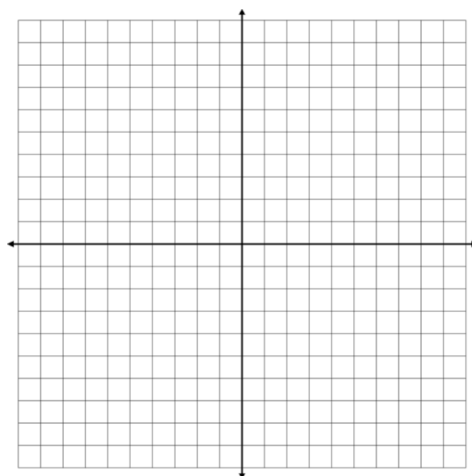
7). Complete the chart

X	Y
1	3
2	7
3	11
-2	-9
5	
	-33

Write an equation that describes the relationship.

Graph the equation on the grid below. What is the slope of the line?

Does this graph define a function – explain why or why not.



8). On the same grid above, also sketch a graph that is not a function and label this graph **A**.

Name _____

9). Write an equation that has:

a) one solution

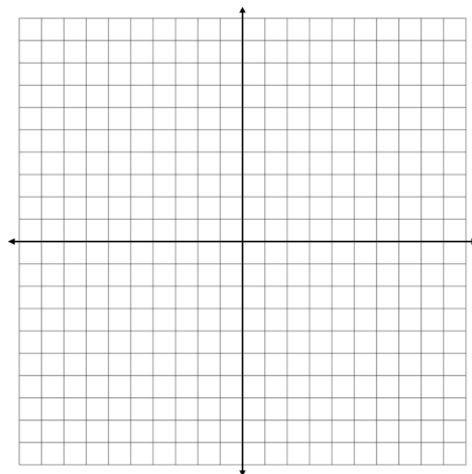
b) no solutions

c) infinite solutions

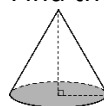
10). Solve and graph the pair of simultaneous linear equations:

$$X + 2Y = 0$$

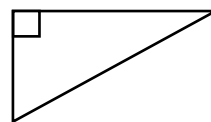
$$2X - Y = -5$$



11). The cone shown below has a radius of 6 cm and height of 15 cm. Find the volume in terms of pi.



12). The legs in the triangle below measure 10cm and 24cm. Find the length of the hypotenuse.



13). Explain the difference between similarity and congruence.

14). Point A has coordinates (-4, -6). Give the coordinates after this point has been reflected over the y axis.