

Algebra Review #37 SHOW HOW YOU SOLVED EACH PROBLEM

1. Looking at the steps shown below, answer the following questions.

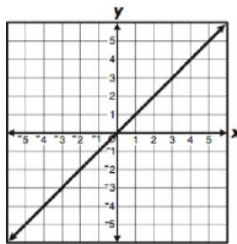
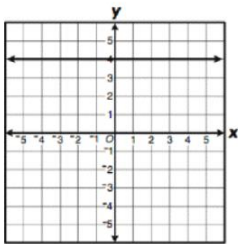
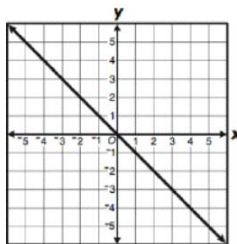
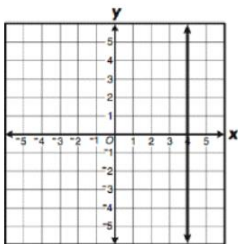
Given:	$3(x - 2) = 17$
(1st step)	$3x - 6 = 17$
(2nd step)	$3x = 23$
(3rd step)	$x = \frac{23}{3}$

What property justifies Step 1?

What property justifies Step 2?

What property justifies Step 3?

2. Identify if the graph has a positive, negative, undefined or zero slope.



NAME _____

4. This table of ordered pairs contains elements of a function of x.

Which equation could define the function?

x	y
0	11
1	6
2	3
3	2
4	3

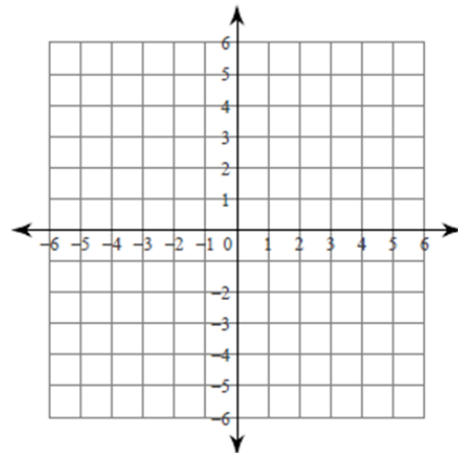
- a) $y = -5x + 11$
- b) $y = (x - 2)^2 + 7$
- c) $y = (x - 3)^2 + 2$
- d) $y = -2x + 11$

5. What are the x and y intercepts of the line represented by the equation $-2y = x - 1$?

X-Intercept:

Y-Intercept:

6. Graph $x - y = 2$ on the graph provided below.



What is the slope?

What is the y-intercept?

7. If y varies directly as x and $y=30$ when $x=10$, what is the constant k ?

9. Simplify:

$$2ab(5ab^4)^2$$

8. Simplify the radical.

$$\sqrt{75mh^5}$$

10. Graph the inequality shown:

$$y \leq 5 - x$$

