

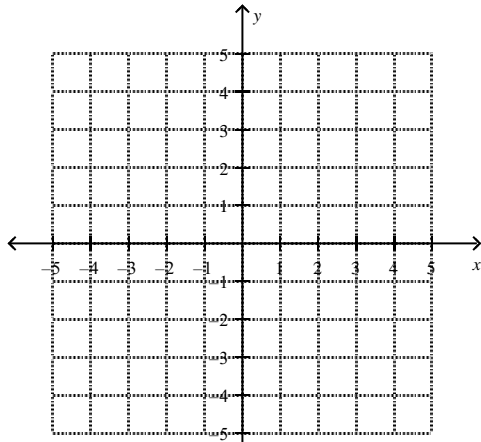
Practice Quiz C: Solving for a variable of interest and Graphing

Name _____

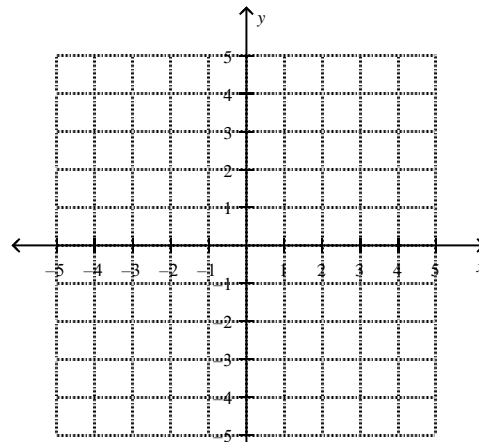
Solve the equation for y and then graph the equation. Give the functions domain, range, and the interval of increase or decrease.

1. $3x + 2y = 10$

2. $-3x + 3(y + 1) = 6$



Solve the equation for y and then make a table with the given values of x.

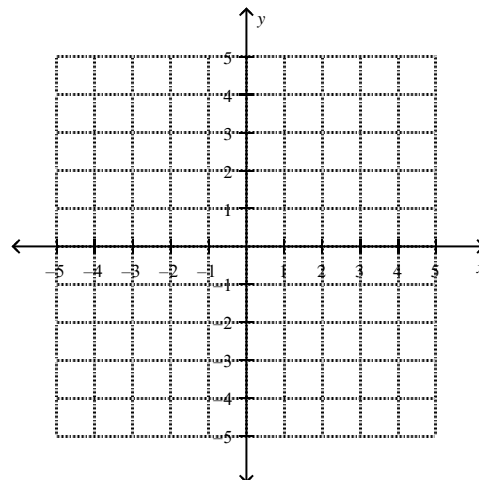


Graph the equation and then solve for y or solve the equation for y and then graph

3. $4y - 8x = 12$

4. $y - 1 = -2(x + 1)$

x	y
-2	
-1	
0	
1	



Solve the equation for y

5. $\frac{x}{5} + 2y = 12$

Solve the proportion for x

6. $\frac{x}{3} = \frac{7}{2}$

Airplane Travel: Use the formula $D = RT$, where **D is the distance traveled** at a **rate of R** for **time T**

7. Solve the equation $D = RT$ for R.

8. If a plane travels 3000 miles in 5 hours, what is the value of R.

9. Assuming the time it takes to travel 3000 miles increases, what happens to the value of R.

Perimeter: Use the formula $P = 2L + 2W$, where **P is the Perimeter**, L is the length, and W is the width.

9. Solve the equation $P = 2L + 2W$ for W

10. A pump can fill a 750-gallon tank in 35 minutes. How long will it take to fill a 1000-gallon tank with this same pump?