

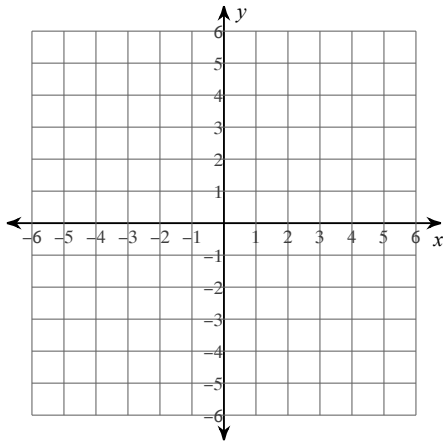
**Solve each equation.**

1)  $-2p - 4p + 6 = 3 - 7p$

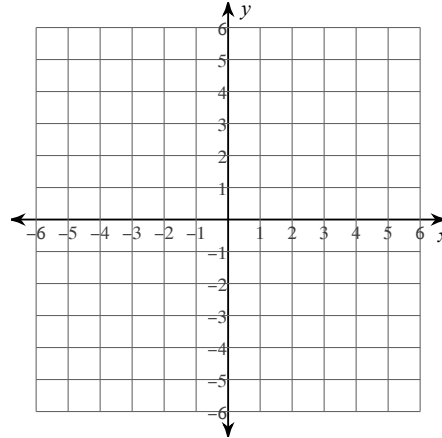
2)  $-1 = \frac{n - 9}{4}$

**Sketch the graph of each line.**

3)  $y = \frac{6}{5}x - 3$

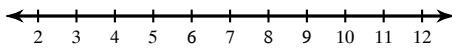


4)  $y = 4$

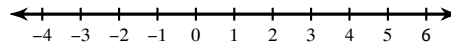


**Solve each inequality and graph its solution.**

5)  $-2(x + 5) \geq -28$



6)  $\frac{x}{2} - 2 < 0$



**Write the point-slope form of the equation of the line through the given points.**

7) through:  $(-3, 3)$  and  $(-1, -2)$

**Write the slope-intercept form of the equation of the line through the given points.**

8) through:  $(-2, -4)$  and  $(-3, -1)$

**Solve the system of linear equations.**

9)  $3x - 2y = 4$   
 $x + 2y = -4$

**Solve the system of linear equations.**

10)  $y = 2x + 9$   
 $-7x + 5y = 21$

Determine whether the following represents a relationship that is linear, exponential growth, exponential decay, or none of these.

11.  $y = 8x^3$

12.  $y = 2.67(1.13)^x$

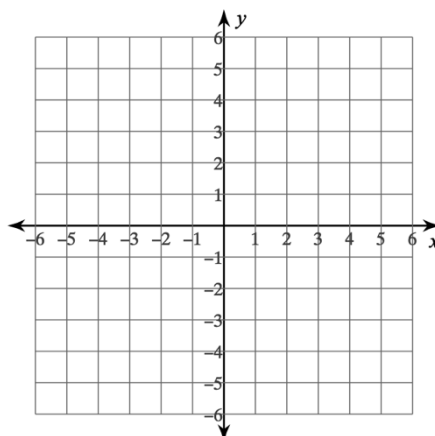
Evaluate the function for the given value of x

11.  $y = 3(6)^x$  for  $x = 4$

14.  $y = 6(3)^x$  for  $x = -2$

Graph the function:

15.  $f(x) = \frac{1}{2} \left(\frac{2}{3}\right)^x$



Write a function that represents the situation.

16. Math Club t-shirt sales began at 1,200 and increase by 8% each year.

17. An SAT prep course had 236 participants but decreased by 13% every year.

Write an explanation to match the given exponential function:

18.  $y = 801(1.12)^t$

Write an exponential function for the given data:

19.

x	y
-2	$\frac{343}{144}$
-1	$\frac{49}{12}$
0	7
1	12
2	$\frac{144}{7}$

20.

x	y
-2	.171875
-1	1.375
0	11
1	88
2	704