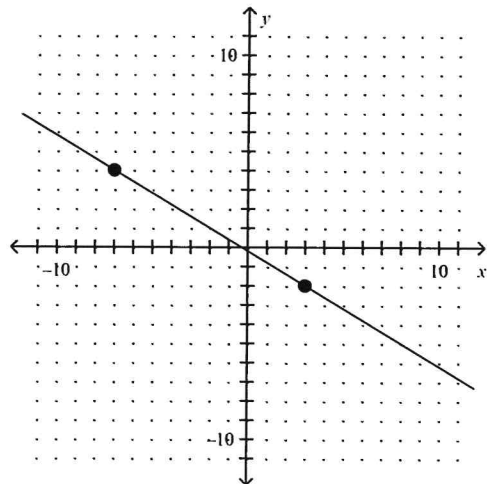


Algebra 2 CP Chapter 2 Review #2

1. Find the slope of the line passing through the points $(-1, -7)$ and $(8, -6)$.

2. Find the slope of the line.

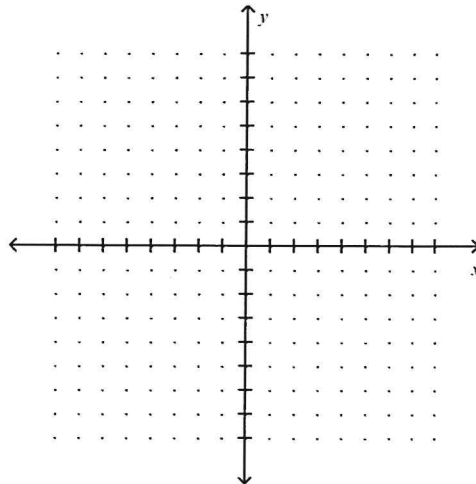


3. Find $f\left(\frac{1}{3}\right)$. $f(x) = 18x^2 - 12x - 3$

4. Is the relation $\{(-6, -4), (-2, -4), (-1, -4)\}$ a function? Why or why not?

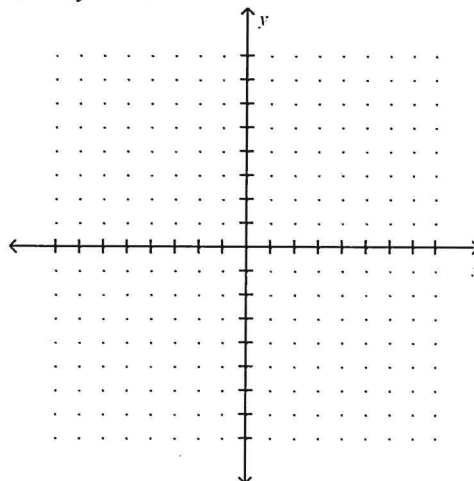
5. Find the slope and y -intercept of the line.
 $4x - 3y = 36$

6. Graph the line $y = -\frac{1}{4}x + 1$.



7. Graph the linear equation by finding x - and y -intercepts.

$$4x - 2y = -8$$



8. Tell whether **Line 1** and **Line 2** are *parallel*, *perpendicular*, or *neither*.
Line 1 passes through $(10, 7)$ and $(13, 9)$
Line 2 passes through $(-4, 3)$ and $(-1, 5)$

Name: _____ Class: _____ Date: _____

Algebra 2 CP Chapter 2 Review #3

- Which slope-intercept equation represents a line that passes through the point $(1, -5)$ and is parallel to the line $y = -4x - 5$?
 - $y = 4x + 1$
 - $y = -4x - 1$
 - $y = -\frac{1}{4}x - 5$
 - $y = -4x - 21$
- Write an equation to model the following situation.
An amusement park charges \$10.00 admission and \$2.00 per ride.
 - $y = 2x + 10$
 - $y = 10x - 2$
 - $y = 10x + 2$
 - $y = -2x + 10$
- Write an equation to model the following situation.
A candle is 6 in. tall and burns at a rate of 2.50 in./h.
 - $y = 6x + 2.5$
 - $y = -2.5x + 6$
 - $y = 6x - 2.5$
 - $y = 2.5x + 6$
- Write the equation of the line, in slope-intercept form, that passes through the point $(3, 5)$ and has slope -2 .
- Find the slope-intercept equation of the line passing through the points $(-3, -5)$ and $(6, -2)$.
- In 1980 the average price of a home in Brainerd County was \$100,000. By 1986 the average price of a home was \$112,000. Which of the following is a linear model for the price of a home, P , in Brainerd County in terms of the year, t ? Let $t = 0$ correspond to 1980.
 - $P = 2000t + 100,000$
 - $P = 112,000 - 12,000t$
 - $P = 112,000 - 2000t$
 - $P = 12,000t + 100,000$