

Lines in the Coordinate Plane –Focus on Slope and Graphing Lines HW

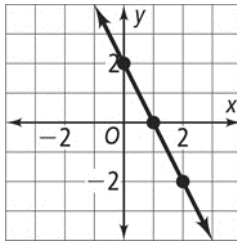
Learning Targets: Students will be able to find the slopes of lines.

Each rate of change is constant. Find the rate of change and explain what it represents.

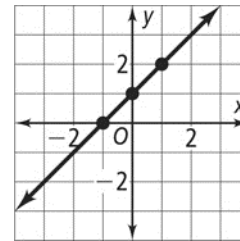
1)

Hours	Fences
3	1
6	2
9	3
12	4

2)



3)



4. Find the slope of the line that passes through the given points.

a) (-4, 5) and (1, 1)

b) (2, 2) and (3, 4)

5. Describe HOW to draw a line that passes through the origin and has a slope of $\frac{3}{5}$.

6. Write the equation of a line with the following information. Use the appropriate equation based on the information provided.

a) (-1,2) and (0,0)

b) $m=-5$ and $b=-6$

c) $m= -2$ and the point (-8,7)

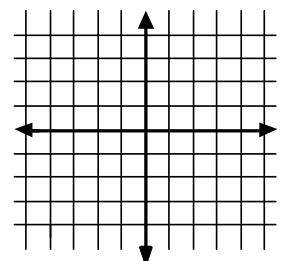
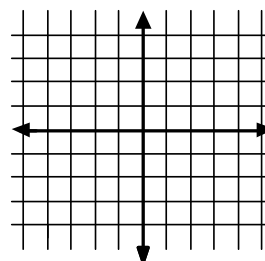
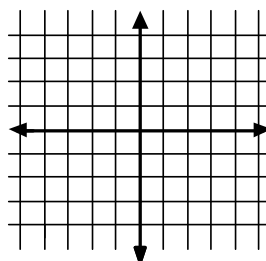
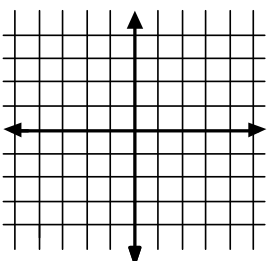
7. Graph the following lines.

a) $y = \frac{1}{2}x + 2$

b) $y = \frac{-4}{5}x - 5$

c) $y = 3$

d) $x = 4$



Spiral Algebra Review

Write an algebraic expression for each word phrase.

1) 10 less than x

2) 5 more than d

3) 7 minus f

4) the sum of 11 and x

Evaluate each expression for $s = 2$ and $t = 5$

5) $s + 6$

6) $5 - t$

7) $\frac{s^4}{4} - 17$

8) $3(t)^3 + 10$

Solve the following equations.

9) $-12 = 8 + \frac{f}{2}$

10) $-22 = -8 + 7y$

11) $14 + \frac{m}{10} = 24$

12) $14 + 6a - 8 = 18$

13) $-28 + 15 - 22z = 31$

14) $22p + 11 = 4p - 7$