

Name: _____

KEY

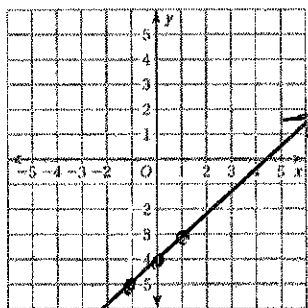
Period: _____

4.1-4.3 Review (Part 1)

Graph the function. (Clue: create a input-output table)

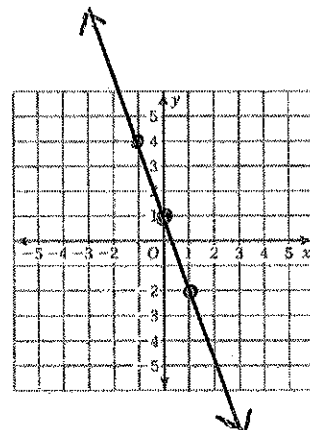
1) $y = x - 4$

X	$x-4=y$	
-1	-1-4	-5 (-1, -5)
0		-4 (0, -4)
1	1-4	-3 (1, -3)

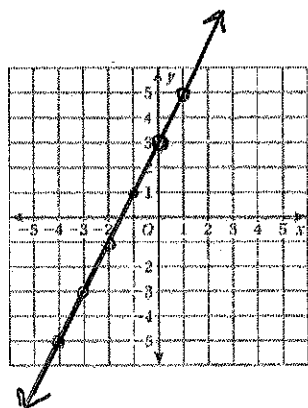


2) $y = -3x + 1$

X	$-3x+1$	y
-1	3+1	4 (-1, 4)
0		1 (0, 1)
1	-3+1	-2 (1, -2)

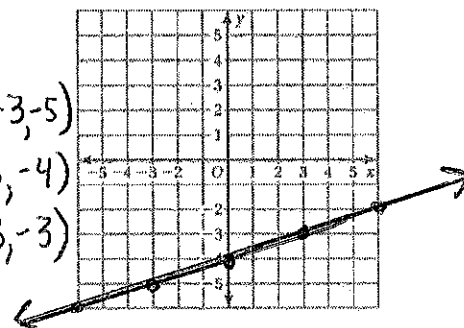


$$\begin{array}{r} 3) \quad -2x + y = 3 \\ \quad +2x \quad +2x \\ \hline y = 2x + 3 \end{array}$$



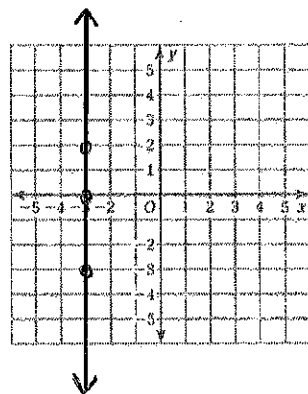
4) $y = \frac{x}{3} - 4$

X	$\frac{x}{3}-4$	y
-3	-1-4	-5 (-3, -5)
0		-4 (0, -4)
3	1-4	-3 (3, -3)



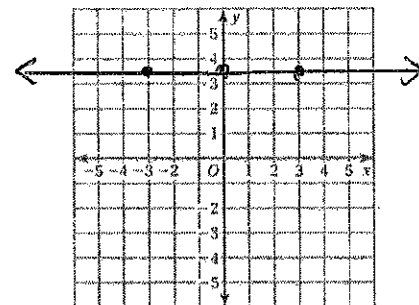
5) $x = -3$

X	$x=-3$	y
-3		-3
-3		0
-3		2

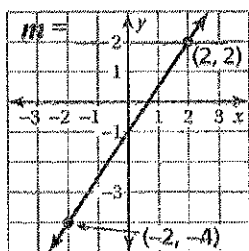


6) $y = 3.5$

X	$y=3.5$	y
-3		3.5
0		3.5
3		3.5

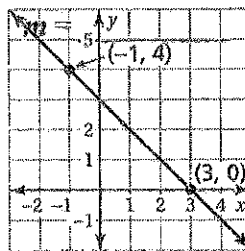
Find the slope of the line in *simplest form*.

7)



$$m = \frac{6}{4} = \frac{3}{2}$$

8)



$$m = \frac{4}{-4} = -1 \text{ or } -\frac{1}{1}$$

9) Find the slope of the line that passes through the points. Write your answer in simplest form.

a) x_1, y_1 and x_2, y_2
 $(-1, -4)$ and $(1, 4)$

$m = \frac{4}{1} \text{ or } 4$

b) x_1, y_1 and x_2, y_2
 $(1, 2)$ and $(-3, 2)$

$m = 0$

$m = \frac{4 - (-4)}{1 - (-1)} = \frac{8}{2} = 4$

$m = \frac{2 - 2}{-3 - 1} = \frac{0}{-4} = 0$

c) x_1, y_1 and x_2, y_2
 $(4, 8)$ and $(4, 12)$

$m = \text{undefined}$

d) x_1, y_1 and x_2, y_2
 $(-3, -6)$ and $(6, 6)$

$m = \frac{4}{3}$

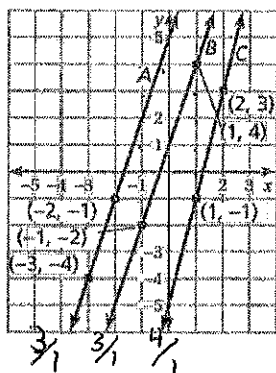
$m = \frac{12 - 8}{4 - 4} = \frac{4}{0}$

or
no slope

$m = \frac{6 - (-6)}{6 - (-3)} = \frac{12}{9} = \frac{4}{3}$

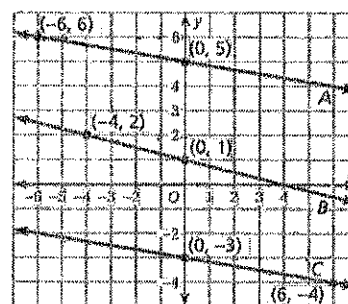
Which lines are parallel? How do you know?

10)



Line A & B
are parallel
because they
have the same
slope

11)



Line A & C
are parallel
because they
have the
same slope

12) The number y of hours of cello lessons that you take after x weeks is represented by the equation $y = 3x$. and interpret the slope.

- a) Graph the equation using at least 4 ordered pairs.
Be sure to label both axis!

x	$y = 3x$	y
0		0
1		3
2		6
3		9

- b) What is the slope of the line?

$m = \frac{3}{1}$

- c) Interpret (explain the meaning of) the slope.

You take 3 hours of cello lessons per week

