Math 9 - Analytic Geometry Name_____

Homework #2 - Writing y=mx+b Homework

Due Date_____ 5T____

For 1-12, create the slope intercept form (y=mx+b) based on the given information.

1) Slope = 1, b = –5

2) Slope = $-\frac{1}{2}$, y-intercept = 3

3) Slope = $\frac{1}{2}$, $(0, -4)$

4) Slope = $\frac{3}{5}$, $(0, 5)$

5) through: $(-3, -4)$, slope = $\frac{5}{3}$

6) through: $(1, 1)$, slope = –1

7) through: $(-2, 2)$, slope = $-\frac{6}{5}$

8) through: $(-4, 5)$, slope = $-\frac{1}{2}$

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

10) through: $(-3, -1)$ and $(4, -3)$

11) through: $(4, -1)$ and $(5, 1)$

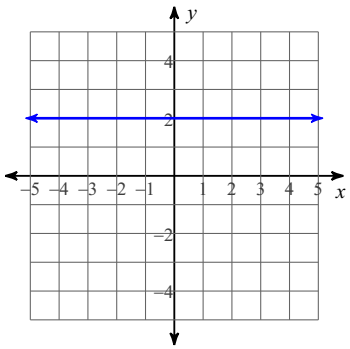
12) through: $(-2, 4)$ and $(0, -4)$

13) Create the equation of the line which has the same slope as $2x - 5y = 10$ and the same y-intercept as $4x + 7y - 21 = 0$.

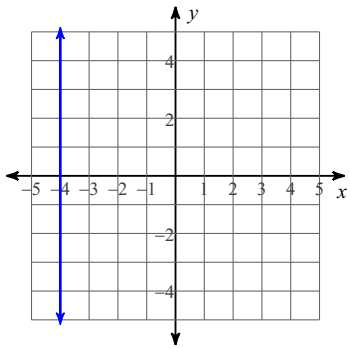
14) Create the equation of the line which has the same slope as $6y - 5 = 4x$ and the same y-intercept as $-5x + 9y = 2$.

Write the slope-intercept form of the equation of each line.

15)



16)



Math 9 - Analytic Geometry Name_____

Homework #2 - Writing y=mx+b Homework

Due Date_____ 5T____

For 1-12, create the slope intercept form (y=mx+b) based on the given information.

1) Slope = 1, b = –5

$y = x - 5$

2) Slope = $-\frac{1}{2}$, y-intercept = 3

$y = -\frac{1}{2}x + 3$

3) Slope = $\frac{1}{2}$, $(0, -4)$

$y = \frac{1}{2}x - 4$

4) Slope = $\frac{3}{5}$, $(0, 5)$

$y = \frac{3}{5}x + 5$

5) through: $(-3, -4)$, slope = $\frac{5}{3}$

$y = \frac{5}{3}x + 1$

6) through: $(1, 1)$, slope = –1

$y = -x + 2$

7) through: $(-2, 2)$, slope = $-\frac{6}{5}$

$y = -\frac{6}{5}x - \frac{2}{5}$

8) through: $(-4, 5)$, slope = $-\frac{1}{2}$

$y = -\frac{1}{2}x + 3$

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

$y = 5x - 11$

10) through: $(-3, -1)$ and $(4, -3)$

$y = -\frac{2}{7}x - \frac{13}{7}$

11) through: $(4, -1)$ and $(5, 1)$

$y = 2x - 9$

12) through: $(-2, 4)$ and $(0, -4)$

$y = -4x - 4$

13) Create the equation of the line which has the same slope as $2x - 5y = 10$ and the same y-intercept as $4x + 7y - 21 = 0$.

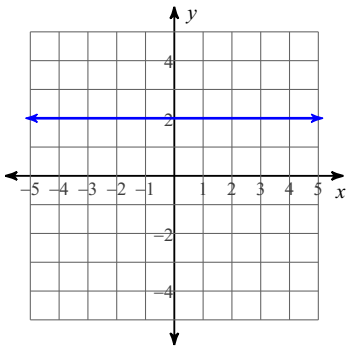
$y = \frac{2}{5}x + 3$

14) Create the equation of the line which has the same slope as $6y - 5 = 4x$ and the same y-intercept as $-5x + 9y = 2$.

$y = \frac{2}{3}x + \frac{2}{9}$

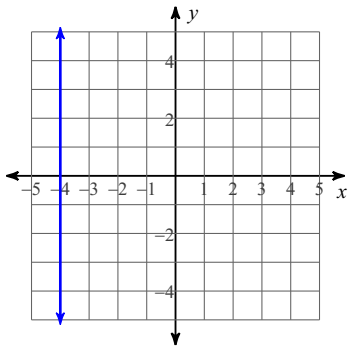
Write the slope-intercept form of the equation of each line.

15)



$y = 2$

16)



$x = -4$