Name_____

HW 7.2 Writing y=mx+b

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 = $-\dfrac{1}{2}$, y-intercept = 3

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

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

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

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

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

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

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

6) through: $(1, 1)$, slope = -1

$$y = -x + 2$$

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

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

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

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

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

$y = 5x - 11$

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

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

11) through: $(-3, -2)$ and $(-4, 5)$

$y = -7x - 23$

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 $4x + 7y - 21 = 0$.

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