Write the Equation of the Line:Given two points

Date_____

Write the slope-intercept form of the equation of the line through the given points.

through: $(0, -5)$ and $(4, 3)$

2) through: $(-4, 3)$ and $(0, -4)$

3) through: $(2, 5)$ and $(0, -4)$

4) through: $(0, -3)$ and $(1, -4)$

5) through: $(0, -1)$ and $(-2, -1)$

6) through: $(4, -1)$ and $(0, -3)$

7) through: $(3, -5)$ and $(0, 0)$

8) through: $(-5, -2)$ and $(0, -1)$

9) through: $(0, 0)$ and $(-1, 1)$

10) through: $(0, 1)$ and $(-3, -3)$

Example : through $\underset{x_1 \; y_1}{(0, 3)}$ and $\underset{x_2 \; y_2}{(-4, -1)}$

slope formula

$m = \dfrac{y_2 - y_1}{x_2 - x_1}$

$\dfrac{-1 - 3}{-4 - 0} = \dfrac{-4}{-4} = \boxed{1}$

$b = 3$

y-intercept is 3

1 is invisable

$y = mx + b$

$y = 1x + 3$ or $\boxed{y = x + 3}$