

Write the Equation of the Line: Given two points

Date _____

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

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

2) through: (0, 2) and (1, -3)

Find m : $\frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 3}{-4 - 0} = \frac{-4}{-4} = 1$

$$3 = 1(0) + b$$

$$3 = b$$

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

3) through: (-4, 0) and (1, 5)

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

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

6) through: (-4, 2) and (0, -5)

7) through: (5, -2) and (-4, -3)

8) through: (-4, 5) and (5, -5)

9) through: (0, -2) and (-5, 3)

10) through: (4, -2) and (-4, -4)

Linear Equations Practice for Re-take

Linear Equations

Answer the problem.

Write an equation of the line that contains the given point and has the given slope.

1. $(-1, -1)$, slope = 2	2. $(-1, 4)$, slope = -3	3. $(4, -10)$, slope = -5
4. $(2, -2)$, slope = $\frac{7}{5}$ $y = 2x + 1$ $-1 = 2(-1) + b$ $-1 = b$	5. $(12, 5)$, slope = $\frac{1}{4}$	6. $(8, -10)$, slope = $-\frac{9}{2}$
7. $(4, -21)$, slope = -5	8. $(-32, -44)$, slope = $-\frac{24}{5}$	9. $(6, -15)$, slope = $\frac{7}{4}$
10. $(-6, 14)$, slope = $\frac{11}{3}$	11. $(-46, 45)$, slope = $-\frac{5}{2}$	12. $(-3, -5)$, slope = $-\frac{1}{5}$
13. $(15, 31)$, slope = $\frac{1}{2}$	14. $(1, 2)$, slope = -3	15. $(48, -4)$, slope = $\frac{9}{4}$