

Name:

Linear and Exponential Functions | 4.7

Go

Topic: Slope-Intercept Form

Rewrite the equations in slope-intercept form. $y = mx + b$

14. $2y + 10 = 6x + 12$
-10 -12

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

$$y = 3x - 1$$

15. $5x + y = 7x + 4$
-5x -5x

$$y = 2x + 4$$

16. $(y - 13) = \frac{1}{2}(8x - 14)$

$$y - 13 = 4x - 7$$

+13 +13

$$y = 4x + 6$$

17. $(y + 11) = -7(x - 2)$

$$y + 11 = -7x + 14$$

-11 -11

$$y = -7x + 3$$

18. $(y - 5) = 3(x + 2)$

$$y - 5 = 3x + 6$$

+5 +5

$$y = 3x + 11$$

19. $3(2x - y) = 9x + 12$

$$6x - 3y = 9x + 12$$

-6x -6x

$$-3y = 3x + 12$$

-3 -3 -3

$$y = -x - 4$$

20. $y - 2 = \frac{1}{5}(10x - 25)$

$$y - 2 = 2x - 5$$

+2 +2

$$y = 2x - 3$$

21. $y + 13 = -1(x + 3)$

$$y + 13 = -x - 3$$

-13 -13

$$y = -x - 16$$

$$y = -x - 16$$

22. $y + 1 = \frac{3}{4}(x + 3)$

$$y + 1 = \frac{3}{4}x + \frac{9}{4}$$

-1 - $\frac{4}{4}$

$$y = \frac{3}{4}x + \frac{5}{4}$$

Need Help? Check out these related videos:

Equations in slope-intercept form:

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalities/v/linear-equations-in-slope-intercept-form>

Equations in point-slope form:

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalities/v/linear-equations-in-point-slope-form>

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