Name: Linear and Exponential Functions | 4.7

Go

Topic: Slope-Intercept Form

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

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

$-10 \quad -10$

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

$y = 3x - 1$

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

$-5x \quad -5x$

$y = 2x + 4$

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

$y - 13 = 4x - 7$

$+13 \quad +13$

$y = 4x + 6$

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

$y + 11 = -7x + 14$

$-11 \quad -11$

$y = -7x + 3$

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

$y - 5 = 3x + 6$

$+5 \quad +5$

$y = 3x + 11$

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

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

$-6x \quad -6x$

$\frac{-3y}{-3} = \frac{3x}{-3} + \frac{12}{-3}$

$y = -1x - 4$

20. $y - 2 = 1/5(10x - 25)$

$y - 2 = 2x - 5$

$+2 \quad +2$

$y = 2x - 3$

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

$y + 13 = -1x - 3$

$-13 \quad -13$

$y = -1x - 16$

$y = -x - 16$

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

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

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

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

Need Help? Check out these related videos:

Equations in slope-intercept form:
http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/v/linear-equations-in-slope-intercept-form

Equations in point-slope form:
http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/v/linear-equations-in-point-slope-form