Rewriting Equations in Slope-Intercept Form

Write each of the following equations in $y = mx + b$ form. Show each step.

1. $2y = -1x - 6$

2. $y - 4x = 8$

3. $0.8x + 0.4y = 1.2$

4. $x + 6y = 4$

5. $-x - y = -2$

6. $y - 1 = \frac{2}{3}(x + 3)$

Write the equations of the lines with the following attributes in slope-intercept form

7. Slope $= -\frac{4}{7}$, through (14, 3)

8. Slope $= 3$, through (-5,6)

9. Slope $= -4$, through (-2, 5)

10. Slope $= \frac{5}{3}$, through (3, 5)

Rewriting Equations in Slope-Intercept Form

Answers

1 $2y = -1x - 6$

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

2 $y - 4x = 8$

$y = 4x + 8$

3 $0.8x + 0.4y = 1.2$

$y = -2x + 3$

4 $x + 6y = 4$

$y = -\dfrac{1}{6}x + \dfrac{2}{3}$

5 $-x - y = -2$

$y = -x + 2$

6 $y - 1 = \dfrac{2}{3}(x + 3)$

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

7 Slope $= -\dfrac{4}{7}$, through (14, 3)

$y = -\dfrac{4}{7}x + 11$

8 Slope $= 3$, through (-5,6)

$y = 3x + 21$

9 Slope $= -4$, through (-2, 5)

$y = -4x - 3$

10 Slope $= \dfrac{5}{3}$, through (3, 5)

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