Point-Slope Form Practice

Write the slope-intercept form of the equation of each line.

1) $y + 4 = -\dfrac{5}{2}(x - 2)$

2) $y + 4 = 3(x + 1)$

3) $y = 2(x - 2)$

4) $y - 3 = \dfrac{6}{5}(x - 5)$

5) $y - 4 = 7(x + 2)$

6) $y - 4 = \dfrac{9}{7}(x - 4)$

7) $y - 2 = x - 3$

8) $y - 2 = -\dfrac{2}{5}(x + 5)$

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

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

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

11) through: $(1, 3)$ and $(1, 1)$

12) through: $(0, 1)$ and $(1, 5)$

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

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

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

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

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

17) through: $(-2, -4)$ and $(-1, -3)$

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

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

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

Answers to Point-Slope Form Practice (ID: 1)

1) $y = -\dfrac{5}{2}x + 1$

2) $y = 3x - 1$

3) $y = 2x - 4$

4) $y = \dfrac{6}{5}x - 3$

5) $y = 7x + 18$

6) $y = \dfrac{9}{7}x - \dfrac{8}{7}$

7) $y = x - 1$

8) $y = -\dfrac{2}{5}x$

9) $y - 1 = -\dfrac{1}{3}x$

10) $y + 3 = -\dfrac{6}{5}(x - 5)$

11) $0 = x - 1$

12) $y - 1 = 4x$

13) $y = \dfrac{2}{3}x - 5$

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

15) $y = \dfrac{1}{4}x - 3$

16) $y = 4$

17) $y = x - 2$

18) $x = 0$

19) $y = x - 4$

20) $y = \dfrac{8}{5}x + 5$