

Name:

Date: Score:

Finding Equation of a Line Worksheet

Write the slope-intercept form of the equation of the line passing through each given pair of points

1 $(4, -1)$ and $(0, 5)$

2 $(6, -3)$ and $(-2, 3)$

3 $(3, 8)$ and $(-2, 1)$

4 $(-3, 4)$ and $(-2, -6)$

5 $(-1, 2)$ and $(0, -1)$

6 $(0, 1)$ and $(1, 1)$

7 $(-3, 1)$ and $(0, -3)$

8 $(6, -3)$ and $(-2, 3)$

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Answers

1 (4, -1) and (0, 5)

$$y = -\frac{3}{2}x + 5$$

2 (6, -3) and (-2, 3)

$$y = -\frac{3}{4}x + \frac{3}{2}$$

3 (3, 8) and (-2, 1)

$$y = \frac{7}{5}x + \frac{19}{5}$$

4 (-3, 4) and (-2, -6)

$$y = -10x - 26$$

5 (-1, 2) and (0, -1)

$$y = -3x - 1$$

6 (0, 1) and (1, 1)

$$y = 1$$

7 (-3, 1) and (0, -3)

$$y = -\frac{4}{3}x - 3$$

8 (6, -3) and (-2, 3)

$$y = -\frac{3}{4}x + \frac{3}{2}$$