

Writing Linear Equations Given Two Points  
Jefferson Davis Learning Center, Sandra Peterson

Write the equation of the line passing through the two given points. Write the answer in slope-intercept form.

1.  $(1, 2)$  and  $(0, 4)$

2.  $(-4, 2)$  and  $(1, 0)$

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

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

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

6.  $(-3, -1)$  and  $(4, -3)$

7.  $(1, 4)$  and  $(-3, 4)$

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

9.  $(1, 2)$  and  $(4, 4)$

10.  $(-4, -4)$  and  $(4, 4)$

11.  $(3, -2)$  and  $(3, 4)$

12.  $(1, 3)$  and  $(-2, -4)$

Answers

1.  $y = -2x + 4$

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

3.  $y = \frac{1}{2}x - 4$

4.  $y = -\frac{6}{5}x + \frac{2}{5}$

5.  $y = -\frac{8}{3}x + \frac{20}{3}$

6.  $y = -\frac{2}{7}x - \frac{13}{7}$

7.  $y = 4$

8.  $y = x + 1$

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

10.  $y = x$

11.  $x = 3$

12.  $y = \frac{7}{3}x + \frac{2}{3}$

Please visit the Learning Lab for further assistance.