

Linear Equations (Part 2 Worksheet #2)

MPM2D

Jensen

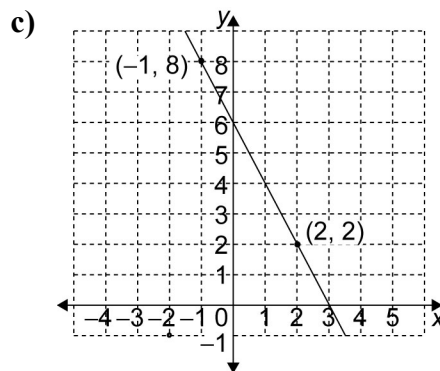
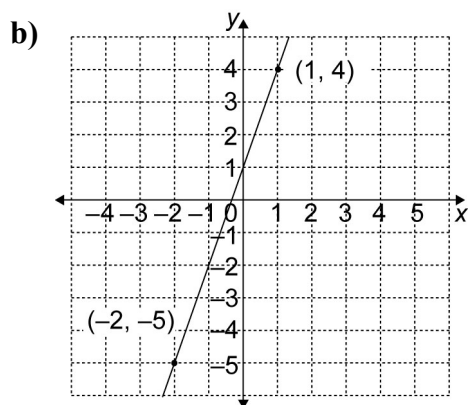
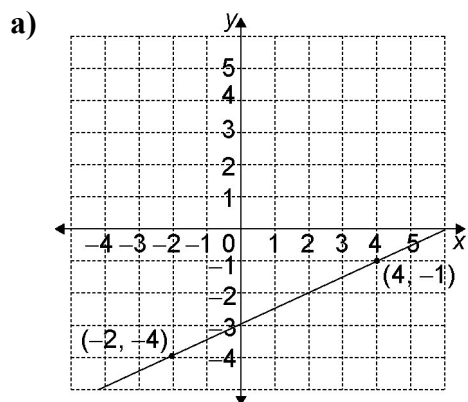
Name: _____

Practice: Find an Equation for a Line Given Two Points

1. Find the slope of the line that passes through each pair of points.

- a) A(2, 3) and B(4, 5)
- b) M(0, 6) and N(2, 0)
- c) S(8, 7) and T(0, 0)
- d) C(3, 4) and D(6, 7)
- e) P(5, 1) and Q(4, 5)
- f) E(2, 3) and F(4, 5)
- g) V(-1, 1) and W(2, -4)
- h) J(2, -1) and K(1, -2)

2. Find an equation for each line.



3. Find an equation for the line that passes through each pair of points.

- a) C(4, 5) and D(5, 1)
- b) J(3, 2) and K(1, 0)
- c) G(7, 7) and H(0, 4)
- d) S(-3, 1) and T(-2, 7)
- e) P(4, 5) and Q(2, 3)
- f) M(-3, 3) and N(3, -5)
- g) X(0, -1) and Z(5, -4)
- h) A(4, -1) and B(-2, -2)

4. A line has an x -intercept of 3 and a y -intercept of 4.

- a) Find the slope of the line.
- b) Write an equation for the line.

5. A line passes through the origin and A(4, 6).

- a) Find the slope of the line.
- b) Write an equation for the line.

Answers

1. a) 1 b) -3
c) $\frac{7}{8}$ d) 1
e) -4 f) 1
g) $-\frac{5}{3}$ h) 1

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

3. a) $y = -4x + 21$ b) $y = x - 1$
c) $y = \frac{3}{7}x + 4$ d) $y = 6x + 19$
e) $y = x + 1$ f) $y = -\frac{4}{3}x - 1$
g) $y = -\frac{3}{5}x - 1$ h) $y = \frac{1}{6}x - \frac{5}{3}$

4. a) $-\frac{4}{3}$ b) $y = -\frac{4}{3}x + 4$

5. a) $\frac{3}{2}$ b) $y = \frac{3}{2}x$