



Equation of a Line

Name _____

Score _____

TP:06

Find an equation of a line passes through the given points. Express the equation in slope-intercept form.

1) $(-3, -3)$ and $(-5, -7)$

2) $(3, 2)$ and $(4, 5)$

3) $(-6, 0)$ and $(6, -8)$

4) $(7, -5)$ and $(3, 4)$

5) $(-3, -2)$ and $(-1, -5)$

6) $(0, 7)$ and $(4, 6)$

7) $(2, 3)$ and $(1, 1)$

8) $(-5, -8)$ and $(-9, -4)$

9) $(-12, 10)$ and $(3, -1)$

10) $(4, -5)$ and $(6, 6)$



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Answer key

TP:06

Find an equation of a line passes through the given points. Express the equation in slope-intercept form.

1) $(-3, -3)$ and $(-5, -7)$

$$y = 2x + 3$$

2) $(3, 2)$ and $(4, 5)$

$$y = 3x - 7$$

3) $(-6, 0)$ and $(6, -8)$

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

4) $(7, -5)$ and $(3, 4)$

$$y = -\frac{9}{4}x + \frac{43}{4}$$

5) $(-3, -2)$ and $(-1, -5)$

$$y = -\frac{3}{2}x + \frac{13}{2}$$

6) $(0, 7)$ and $(4, 6)$

$$y = -\frac{1}{4}x + 7$$

7) $(2, 3)$ and $(1, 1)$

$$y = 2x - 1$$

8) $(-5, -8)$ and $(-9, -4)$

$$y = -x - 13$$

9) $(-12, 10)$ and $(3, -1)$

$$y = -\frac{11}{15}x + \frac{18}{15}$$

10) $(4, -5)$ and $(6, 6)$

$$y = -\frac{11}{2}x - 27$$