Geometry
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## Midpoint and Slope

Period Date

Find the midpoint of the line segment with the given endpoints. Answers can be written as decimals or fractions when needed.

1) 
$$(5, -3)$$
,  $(8, 5)$ 

$$\left(6\frac{1}{2},1\right)$$

$$(-4, 5), (-8, 1)$$

$$(-6, 3)$$

3) 
$$(4,0)$$
,  $(-3,10)$ 

$$\left(\frac{1}{2},5\right)$$

4) 
$$(-3, -7)$$
,  $(10, 10)$ 

$$\left(3\frac{1}{2}, 1\frac{1}{2}\right)$$

$$\left(2\frac{1}{2},-1\right)$$

$$\left(2\frac{1}{2}, 4\frac{1}{2}\right)$$

Find the other endpoint of the line segment with the given endpoint and midpoint. HINT: The midpoint is the middle number between the endpoint and what other number?

$$(-11, -20)$$

$$(-3, 2)$$

10) Endpoint: 
$$(-10, 9)$$
, midpoint:  $(5, -1)$ 

Find the slope of the line through each pair of points. The answer should ALWAYS be left as a fraction or whole number.

$$\frac{1}{17}$$

$$-5$$

13) 
$$(-2, 4), (5, 1)$$

$$-\frac{3}{7}$$

$$-\frac{10}{3}$$

$$\frac{11}{8}$$

$$-\frac{1}{2}$$