Geometry - CW

Name_____

Distance, Midpoint, and Slope

Date_____ Period____

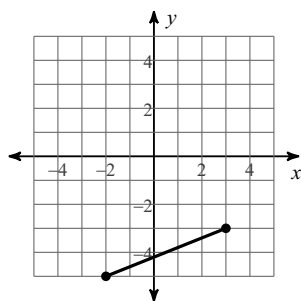**Find the distance between each pair of points.**

1) $(-2, 5)$, $(5, -7)$
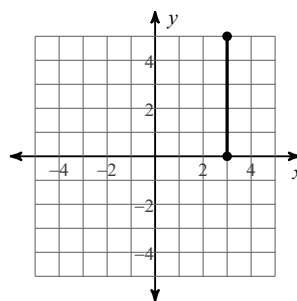
2) $(-5, 0)$, $(-5, 2)$

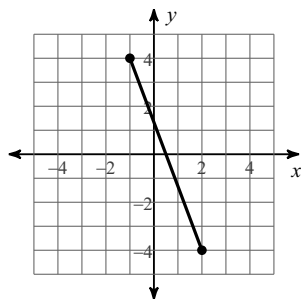3) $(-6, 7)$, $(-4, 6)$
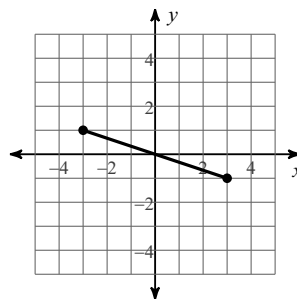
4) $(3, 0)$, $(-5, -8)$

5)

6)

7)

8)

Find the slope of the line through each pair of points.
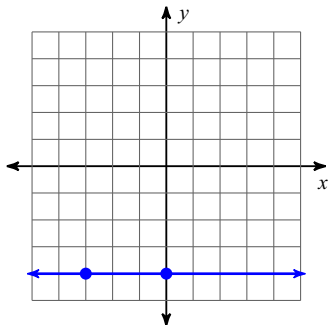
9) $(-19, -17)$, $(-7, -8)$

10) $(-9, 0)$, $(-11, -20)$
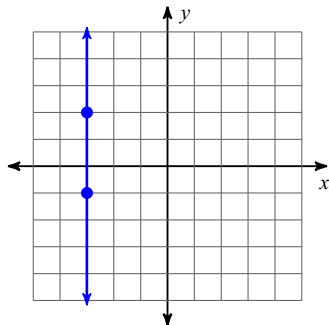
11) $(-16, 15)$, $(-16, -12)$

12) $(6, -20)$, $(-4, -16)$
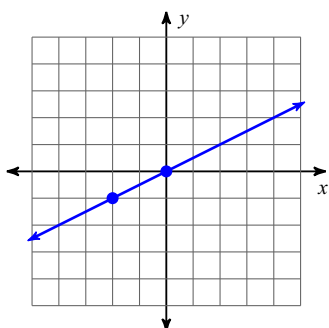
Find the slope of each line.
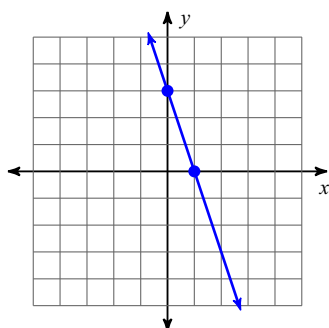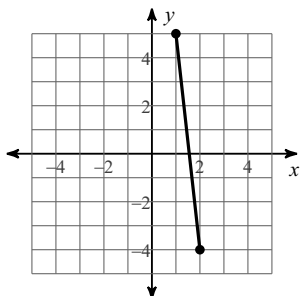
13)

14)

15)

16)

Find the midpoint of the line segment with the given endpoints.
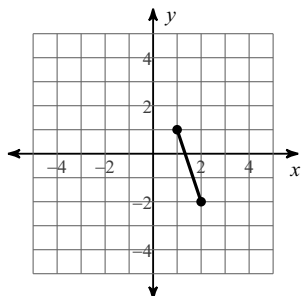
17) $(-10, 8),\ (6, -4)$

18) $(-8, -4),\ (7, -8)$

Find the midpoint of each line segment.

19)

20)

Find the other endpoint of the line segment with the given endpoint and midpoint.

21) Endpoint: $(3, 5),$ midpoint: $(-7, -3)$

22) Endpoint: $(-8, 10),$ midpoint: $(5, 9)$

Name_____

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Find the distance between each pair of points.

1) $(-2, 5)$, $(5, -7)$
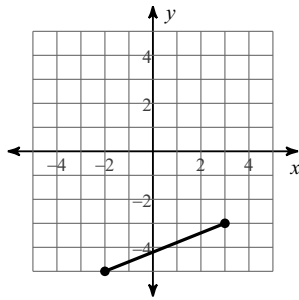
$\sqrt{193}$

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

2

3) $(-6, 7)$, $(-4, 6)$

$\sqrt{5}$

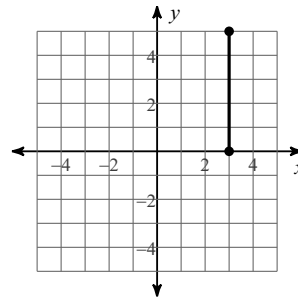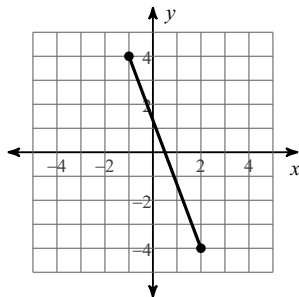4) $(3, 0)$, $(-5, -8)$

$8\sqrt{2}$
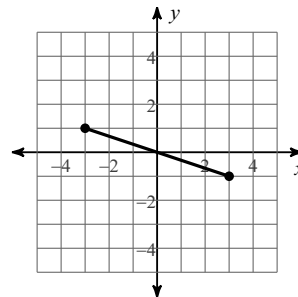
5)

$\sqrt{29}$

6)

5

7)

$\sqrt{73}$

8)

$2\sqrt{10}$

Find the slope of the line through each pair of points.

9) $(-19, -17), (-7, -8)$

$\dfrac{3}{4}$

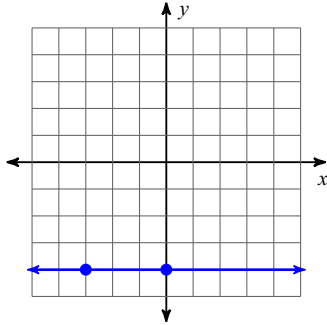10) $(-9, 0), (-11, -20)$

10

11) $(-16, 15), (-16, -12)$

Undefined

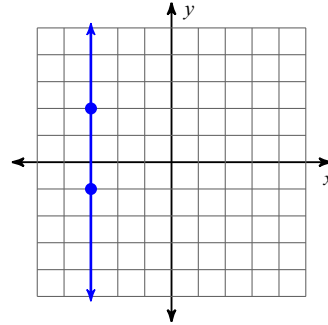12) $(6, -20), (-4, -16)$

$-\dfrac{2}{5}$
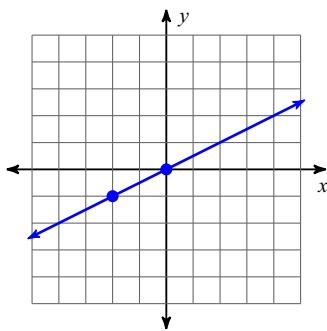
Find the slope of each line.
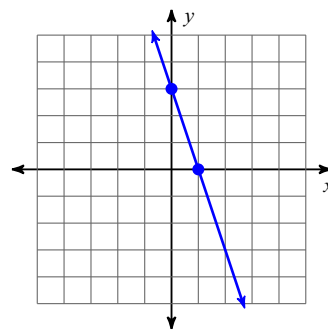
13)

0

14)

Undefined

15)

$\dfrac{1}{2}$

16)

-3

Find the midpoint of the line segment with the given endpoints.
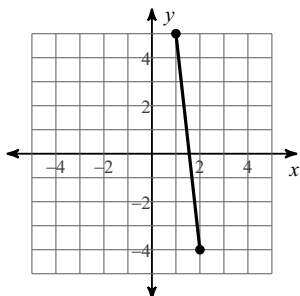
17) $(-10, 8),\ (6, -4)$

$(-2, 2)$
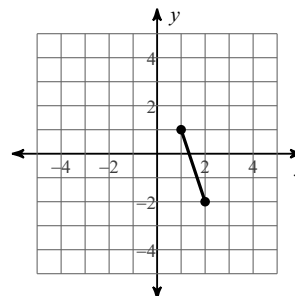
18) $(-8, -4),\ (7, -8)$

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

Find the midpoint of each line segment.

19)

$\left(1\dfrac{1}{2}, \dfrac{1}{2}\right)$

20)

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

Find the other endpoint of the line segment with the given endpoint and midpoint.

21) Endpoint: $(3, 5)$, midpoint: $(-7, -3)$

$(-17, -11)$

22) Endpoint: $(-8, 10)$, midpoint: $(5, 9)$

$(18, 8)$