

WS 1.3B Midpoint Formula

Find the midpoint of the line segment with the given endpoints.

1) $(-5, -4), (-9, 10)$

2) $(6, 1), (7, 0)$

3) $(-2, -6), (1, 6)$

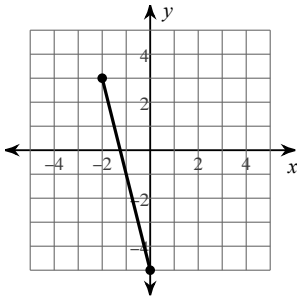
4) $(-2, -8), (5, 7)$

5) $(3, -7), (5, 0)$

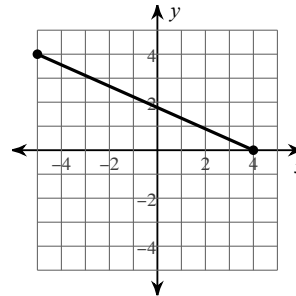
6) $\left(-1\frac{2}{7}, -\frac{1}{5}\right), \left(\frac{3}{4}, \frac{4}{5}\right)$

Find the midpoint of each line segment.

7)



8)



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

9) Endpoint: $(-7, 2)$, midpoint: $(-6, -10)$

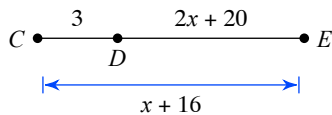
10) Endpoint: $(-6, 4)$, midpoint: $(5, 0)$

11) Endpoint: $(7, 10)$, midpoint: $(4, -7)$

12) Endpoint: $(1, -7)$, midpoint: $(-3, -10)$

Find the length indicated.

13) Find DE



14) B is the midpoint of segment AC . $AB = 2x + 3$ and $BC = 4x - 7$. Find the length of AC .

15) B is the midpoint of segment AC .

$AB = 3x + 3$ and $AC = 8x - 8$. Find the length of BC .