

LESSON 41: Midpoint

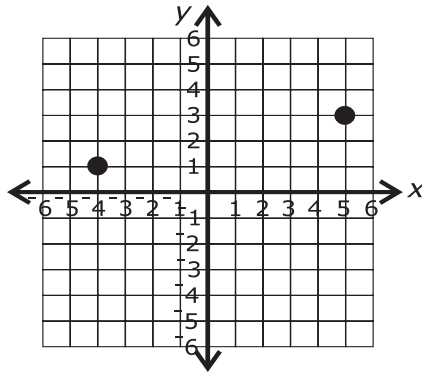
Homework

.....
Directions: Find the midpoint between the following points.

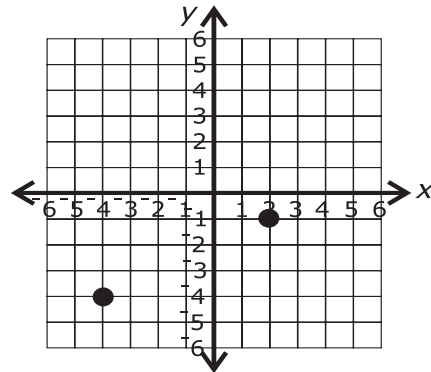
1. $(1, 5)$ and $(6, 4)$
2. $(-3, 2)$ and $(5, 0)$
3. $(12, -2)$ and $(-4, -7)$

Directions: Identify the two points and find the midpoint.

4.



5.



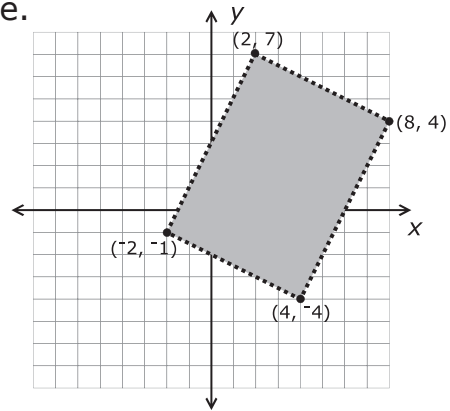
LESSON 41: Midpoint

.....

Homework

.....

6. Find the midpoint of a diagonal of the rectangle.



7. Find the values of m and n for the line segment RS with $R(m, 4)$ and $S(2, n)$ and a midpoint of $(8, 1)$.
8. Which of the following is the midpoint of $(8, 4)$ and $(1, -2)$?
- A. $(\frac{7}{2}, 3)$ B. $(\frac{9}{2}, 3)$ C. $(\frac{9}{2}, 1)$ D. $(\frac{-1}{2}, 6)$
9. The midpoint of the segment with endpoints at $(x, -2)$ and $(18, 8)$ is $(11, 3)$. What is the value of x ?
- A. 2 B. 4 C. 6 D. 10
10. The Williams and Lee families are at the beach. The Williams family leaves the beach and travels 6 km west and 11 km north to go to their hotel. The Lee family leaves the beach and travels 9 km east and 3 km south to go to their hotel. If the beach is at the origin $(0, 0)$, what are the coordinates that represent the midpoint between the hotels? (Note: west and south are negative and east and north are positive.)
- A. $(\frac{3}{2}, 4)$ B. $(\frac{17}{2}, 7)$ C. $(7, \frac{3}{2})$ D. $(\frac{-3}{2}, 10)$