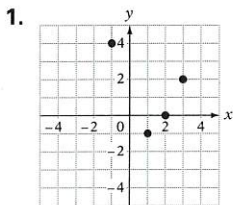
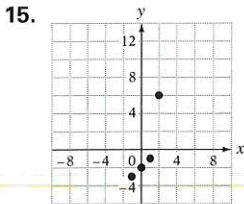
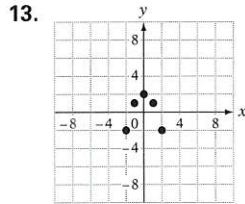
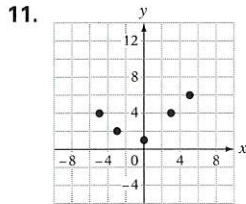
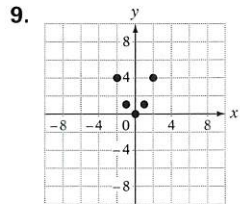
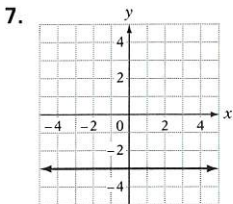
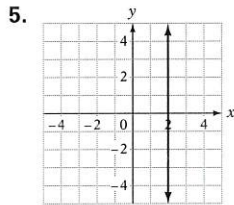


# Answers to Chapter 3 Odd-Numbered Exercises

## SECTION 3.1



3. A is (0, 3); B is (1, 1); C is (3, -4); D is (-4, 4).



17. length: 4.47; midpoint: (4, 3)

19. length: 2.24; midpoint:  $\left(-1, \frac{7}{2}\right)$

21. length: 5.10; midpoint:  $\left(-\frac{1}{2}, -\frac{9}{2}\right)$

23. length: 9.90; midpoint:  $\left(\frac{3}{2}, \frac{3}{2}\right)$

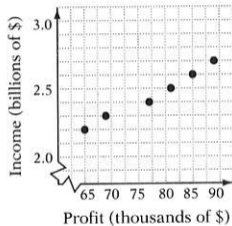
25. length: 3; midpoint:  $\left(\frac{7}{2}, -5\right)$

27. length: 4.18; midpoint:  $\left(\frac{1}{2}, \frac{1}{2}\right)$

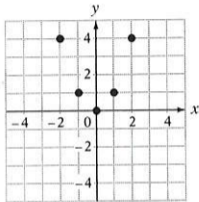
29a. The temperature of the reaction after 20 min was 280°F.

b. The temperature was 160°F in 50 min.

31.



33.



35. The graph is a circle of radius 5 centered at the origin.

37.

