

3. (a) 45°
 (b) 104°
 (c) 33.7°
 (d) 143.1°

4. (a) 45°
 (b) 18.4°
 (c) 63.4°
 (d) 63.4°

5. (a) $y = x - 1$
 (b) $y = 0.5x + 4$
 (c) $y = -x + 2$
 (d) $y = 2x - 1$
 (e) $y = -5x - 10$
 (f) $y = 0.2x + 2$

7. (a) $y = \frac{1}{\sqrt{3}}x + 4$
 (b) $y = \sqrt{3}(x + 2)$
 (c) $y = -\sqrt{3}x + 3$
 (d) $y = \sqrt{3}(x + 3)$
 (e) $y = -\sqrt{3}x$
 (f) $y = \frac{1}{\sqrt{3}}(x + 2)$

8. (a) 45°
 (b) 71.6°
 (c) 116.6°

9. (a) 123.7°
 (b) 18.4°
 (c) 153.5°
 (d) 90°

Exercise 3.7 page 20

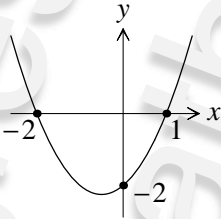
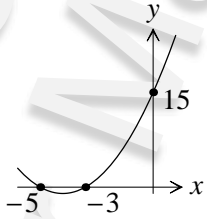
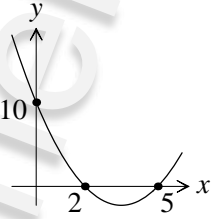
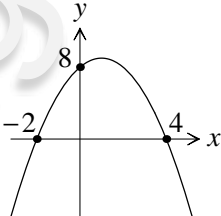
1. (a) $(-1, 12)$
 (b) 5
 2. (a) $(4, -1)$
 (b) $2\sqrt{2}$
 3. $(0, 2)$
 4. A inside, B on the circle, C outside, D outside, E inside
 5. $(2, 2), (-2, 2), (2, -2), (-2, -2)$
 6. $(7, 7), 7$

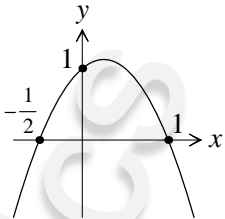
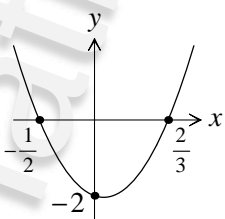
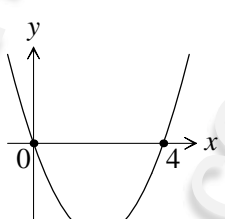
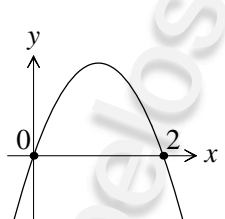
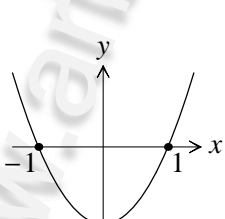
7. $2\sqrt{2}$

Exercise 3.8 page 21

1. $(6, 6), (6, -6), (-6, -2), (-2, 2)$
 2. $(40, 30), (85, 15), (55, 35)$
 3. (a) 2 units, 2 units, 1 unit
 (b) $(2, 4), (14, 4), (8, 9)$
 4. (a) 10 units
 (b) 3 units
 5. 1 unit
 7. $\sqrt{5}$ units

Exercise 4.1 page 23

1. (a) 
 (b) 
 (c) 
 (d) 

- (e) 
 (f) 
 (g) 
 (h) 
 (i) 
 (j) 