

Chapter 4 Review: Solutions

1. a) $x = -2; x = -4$

b) $x = 1; x = -3$

2. a) $x = -2; x = -5$

b) $x = -2; x = 3$

c) $x = 3; x = 6$

d) $x = -1; x = -4$

e) $x = -\frac{3}{2}; x = -\frac{1}{2}$

f) $x = 0; x = \frac{5}{2}$

3. a) $x^2 - 2x - 35 = 0$

b) $x^2 - 7x + 12 = 0$

c) $3x^2 - 10x + 8 = 0$

4. a) $x = 1; x = 3$

b) $x = 6 \pm \sqrt{5}$

5. a) 2 real distinct roots

b) no real roots

c) 2 real distinct roots

d) one real root

6. a) $x = -2.25; x = 3$

b) $x = 3.27; x = 6.73$

7. a) $x = -1; x = 2$

b) $x = 2 \quad x = -\frac{1}{2}$

8. 48m

9. 18cm \times 20cm

10. 11m \times 13m

11. a) 32m

b) 1s

c) 28m

d) 3.8s

12. 20cm