

Chapter 7 Test

- 1) $x = \pm 2$
- 3) $x = 2$ or $x = 6$
- 5) $x = -\frac{5}{2} \pm \sqrt{\frac{77}{4}}$
- 7)
 - a) The parabola has a maximum.
 - b) Vertex is $(-\frac{1}{6}, \frac{109}{12})$.
 - c) The quadratic has 2 real roots
 - d) Roots are approximately $-1.9, 1.6$.
 - e) $(0,9)$
- 9)
 - a) Approximately 12.98 m
 - b) 1.5 meters
 - c) Approximately 3.76 sec
- 11)
 - a) No revenue is generated when the product sells for \$0 and \$13.46.
 - b) Approximately \$6.73