

Business PreCalculus MATH 1643 Section 004, Spring 2014
Answer key: worksheet 19

1- $f(x) = 3(x - 2)^2$.

2- Graph.

3- Answers:

a. Vertex = $(-2, -4)$, Axis of parabola $x = -2$, x -intercept is $(0, 0)$ and y -intercept is $(0, 0)$.

b. Vertex = $(\frac{3}{2}, \frac{41}{4})$, Axis of parabola $x = \frac{3}{2}$, x -intercepts are $(\frac{3+\sqrt{41}}{2}, 0)$ and $(\frac{3-\sqrt{41}}{2}, 0)$ and y -intercept is $(0, 8)$.

4- It has a maximum.

5- Answers:

a. Maximum = $(2, 64)$.

b. $t = 4s$.