

Business PreCalculus MATH 1643 Section 004, Spring 2014
Homework 19

- 1-** Find the vertex of $f(x) = 2x^2 - 8x + 9$.

- 2-** A revenue function is given by $R(x) = 15 + 114x - 3x^2$, where x is the number of units produced and sold. Find the value of x for which the revenue is maximum.

- 3-** Find the quadratic function that has a vertex $(-3, -2)$ and passes through $(0, -8)$.

- 4-** Find the vertex $= (-\frac{b}{2a}, f(-\frac{b}{2a}))$ and the intercepts of $y = x^2 - 4x + 5$.