

1. For each quadratic function, find the vertex, identify it as the maximum or minimum, find the actual maximum or minimum value, Round Answers to Two Decimal Places.

a) $f(x) = x^2 - 4x + 7$ Vertex = _____ Max or Min Max or Min Value _____

b) $f(x) = -2x^2 + 4x + 1$ Vertex = _____ Max or Min Max or Min Value _____

c) $f(x) = -2x^2 - 8x$ Vertex = _____ Max or Min Max or Min Value _____

d) $f(x) = -2.2x^2 + 6.1x + 1.4$ Vertex = _____ Max or Min Max or Min Value _____

e) $f(t) = -16t^2 + 100t + 3$ Vertex = _____ Max or Min Max or Min Value _____

f) $f(s) = 7.8s^2 - 514s + 8734$ Vertex = _____ Max or Min Max or Min Value _____

2. Solve the following quadratic equations, Use your calculator to approximate all solutions to two decimal places

a. $3x^2 - 6x - 1 = 0$

Solution(s) _____

b. $2p^2 - 8p = -3p$

Solution(s) _____

c. $27 = 16t^2 + 2t$

Solution(s) _____

d. $0 = -16t^2 + 96t$

Solution(s) _____

e. $0 = x - 0.0005x^2$

Solution(s) _____

f. $5 = -16t^2 + 96t$

Solution(s) _____