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Algebra 2- Chapter 4
Learning Target Quiz #2

Name _____

Per ____

LT #2: Standard Form of a Quadratic

1. Given $f(x) = 2x^2 - 4x - 1$

a. Does the graph of *f(x)* open up or down?

b. Identify the vertex

$X = \frac{-b}{2a} = \frac{-(-4)}{2(2)} = \frac{4}{4} = 1$ $2(1)^2 - 4(1) - 1$ $2 - 4 - 1$ $-2 - 1$ -3

c. Identify the axis of symmetry

d. Identify the maximum or minimum value

e. Identify the domain of the function

f. Identify the range

g. Identify the y-intercept of *f(x)*. Write as a coorindate.

h. Write the function in vertex form

1. (1 point each)

a) up

b) (1, -3)

c) $x = 1$

d) min = -3

e) $\mathbb{R}$

f) $y \geq -3$

g) (0, -1)

h) $y = 2(x-1)^2 - 3$