

Review Sheet

Name _____

Answer the Following questions.

1) $y = 2x^2 - 4x - 8$

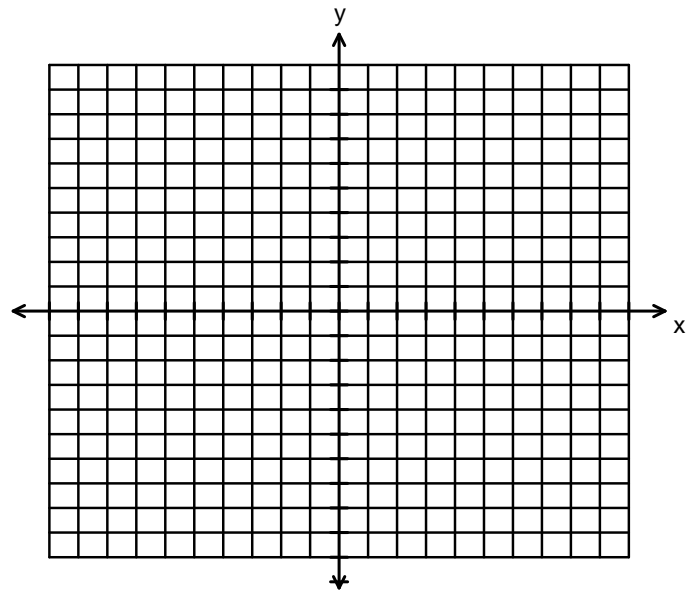
A) Orientation: _____

B) Vertex and Type

C) Table of Values

x	$y = x^2$	x	$y = 2x^2 - 4x - 8$

D) Graph



E) Equation of AOS for each graph:

AOS for $y = x^2$: _____

AOS for $y = 2x^2 - 4x - 8$: _____

F) y has a _____ value of $y =$ _____ and it occurs at $x =$ _____

G) Domain

Range

2) $y = -0.5x^2 - 6x - 8$

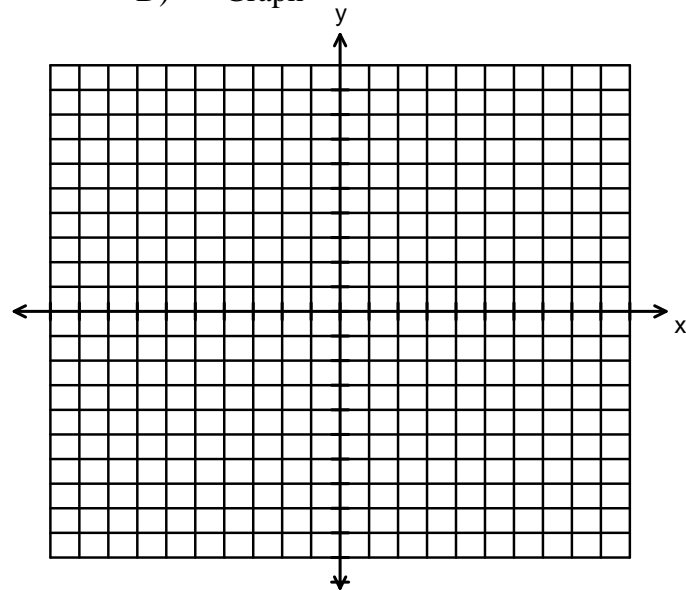
A) Orientation: _____

B) Vertex and Type

C) Table of Values

x	$y = x^2$	x	$y = -0.5x^2 - 6x - 8$

D) Graph



E) Equation of AOS for each graph:

AOS for $y = x^2$: _____

AOS for $y = -0.25x^2 - 2x + 5$: _____

F) y has a _____ value of $y =$ _____ and it occurs at $x =$ _____

G) Domain

Range

3 A ball is thrown vertically into the air. The path of the ball is given by $h = -16t^2 + 80t$ where h is height in meters and t is time in seconds.

A) What kind of vertex will the graph have? _____

B) What is the height of the ball at 3.0 s? (Substitute 3.0 s into “ t ” and solve for h .)

C) Find the vertex of the parabola.

D) When will the ball reach its maximum height? _____

E) What is the maximum height reached by the ball? _____

4 An object is fired vertically from the top of a tower and follows a path defined by: $h = -15t^2 + 70t + 200$ where h is the height in meters and t is the time in seconds.

A) From what height was the ball initially fired?

B) Algebraically determine the by the maximum height attained by the object and the time taken to reach this height. (ie. Find the vertex and interpret it.)