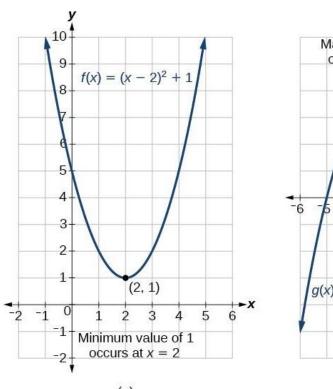
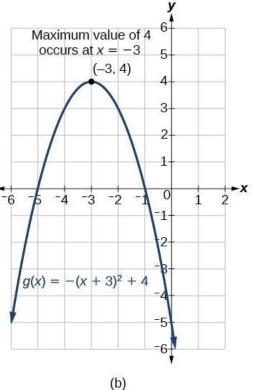
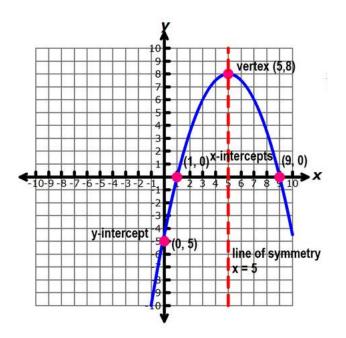
OBERLIN HIGH SCHOOL MATHEMATICS DEPARTMENT GRADE 10 IDENTIFYING PARTS OF QUADRATIC GRAPHS

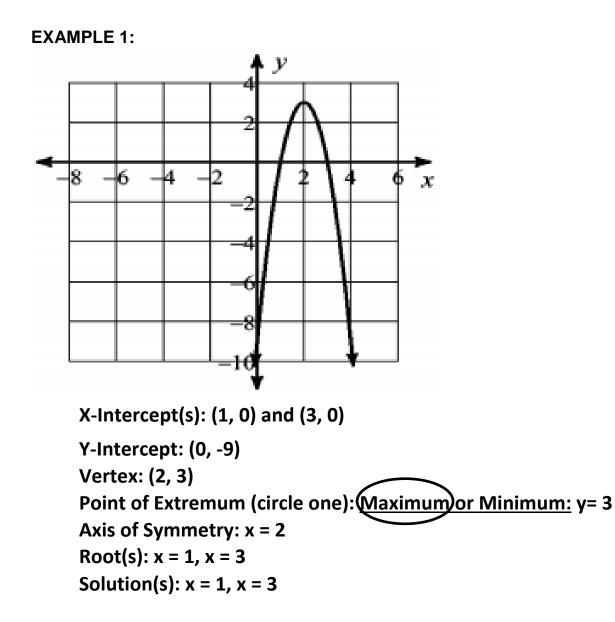
VOCABULARY

Word	Definition	Picture
Parabola	Shape of quadratic equation	\uparrow \uparrow \prime
Vertex	Point where direction of graph changes (curve)	
Axis of Symmetry	Imaginary line where parabola can be folded in half	$\neg \lor / \land \end{vmatrix}$
Maximum	Highest point on graph	
Minimum	Lowest point on graph	

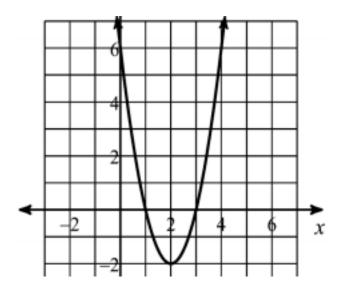




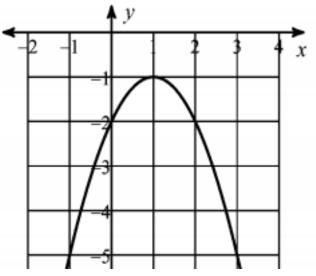




EXAMPLE 2:



X-Intercept(s): (1, 0) and (3, 0) Y-Intercept: (0, 6) Vertex: (2, -2) Point of Extremum (circle one): <u>Maximum or Minimum</u> y= -2Axis of Symmetry: x = 2Root(s): x = 1, x = 3Solution(s): x = 1, x = 3 EXAMPLE 3:



X-Intercept(s): None (doesn't touch x-axis)

Y-Intercept: (0, -2)

Vertex: (1, -1)

Point of Extremum (circle one): Maximum or Minimum: y= -1

Axis of Symmetry: x = 1

Root(s): None (doesn't touch x-axis)

Solution(s): None (doesn't touch x-axis)

ACTIVITY

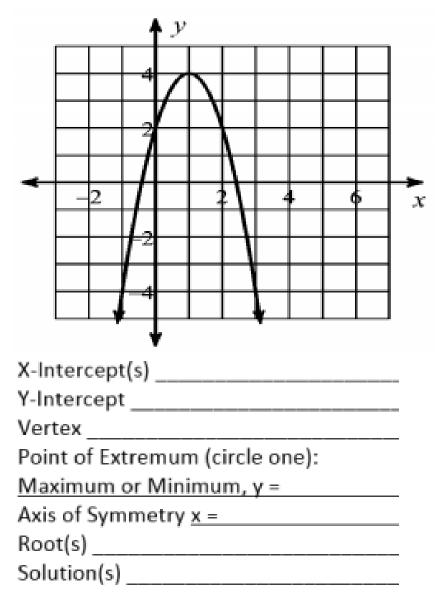
Name_____

Date _____

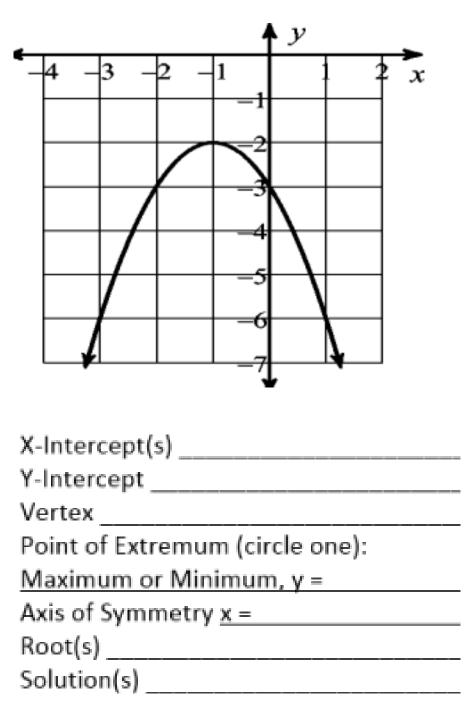
Class _____

Identify the key features of quadratic functions

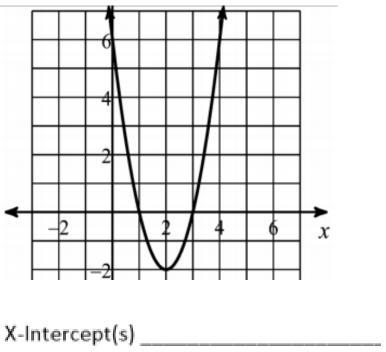
QUESTION 1



QUESTION 2



QUESTION 3



Y-Intercept _____ Vertex _____ Point of Extremum (circle one): <u>Maximum or Minimum, y =</u> Axis of Symmetry <u>x =</u> Root(s) _____ Solution(s) _____