Name _____ Date _____

2.2 Puzzle Time

What Is The Difference Between An Elbow And A Rabbit's Telephone?

A	B	C	D	E	F
G	H	I	J	K	L

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

Find the vertex and axis of symmetry of the function.

A. $f(x) = 9x^2 - 3$

B. $y = -x^2 + 2x - 5$

C. $g(x) = -0.5x^2 - x - 10$

D. $f(x) = -2x^2 + 8x - 1$

Find the minimum value or maximum value of the function.

E. $f(x) = -3x^2 + 12x - 10$

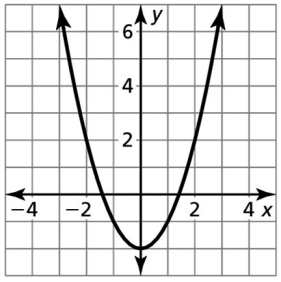
F. $y = -x^2 + 8$

G. $g(x) = x^2 - 2x + 1$

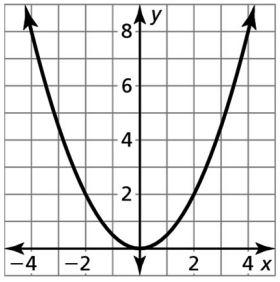
H. $y = 2x^2 - 20x$

Match the graph with its function.

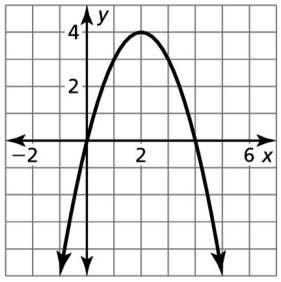
I.



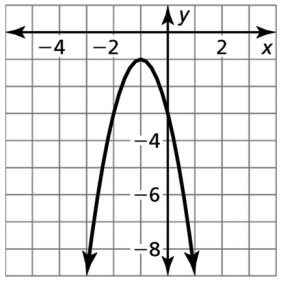
J.



K.



L.



0 minimum THE	8 maximum AND
2 maximum BONE	$f(x) = -(x-2)^2 + 4$ BUNNY'S
$(-1, -9.5)$ $x = -1$ A	−50 minimum OTHER
$f(x) = -2(x+1)^2 - 1$ PHONE	$f(x) = \frac{1}{2}x^2$ A
$f(x) = x^2 - 2$ IS	$(0, -3)$ $x = 0$ ONE
$(1, -4)$ $x = 1$ IS	$(2, 7)$ $x = 2$ FUNNY

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