




Name _____ Date _____ Pd _____

Chapter 8 Graphing Quadratic Functions Test Study Guide

Put a "B" under the face that represents how comfortable you feel with that specific topic right now. Once the table is completely filled, watch the tutorial video(s) and fill out the table again with an "A". The topics that make you cry should be the first ones you fill your notecard with. Then move onto the ones that sometimes give you trouble. Once you can mark all checks in the smiley column you are ready for your test!

Topic			
Comparing graphs			
Transformations			
Reflections			
Horizontal translations			
Vertical translations			
Vertical stretch			
Vertical compression			
Vertex			
Axis of symmetry			
Zeros/roots/solutions/ x-intercepts			
y-intercept			
Domain			
Range			
Maximum/Minimum			
Maximum value/ Minimum value			
Increasing/Decreasing			
t-charts to graph			
Opens up/down			
Writing equations			

TEST TOPICS & Extra Practice Problems

3 Transformations

2 Graphing with Zeros

1 Writing an equation in standard form

1 Key characteristics from a graph

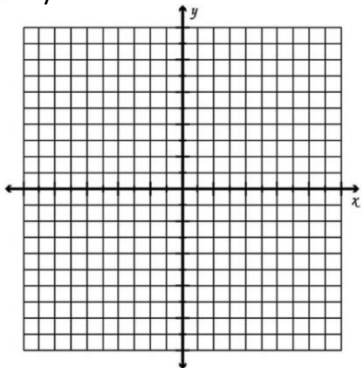
3 Graphing from a function

1 Real-World Application

BONUS: Spiral Review

On the graph provided, graph each of the following equations. Be able to identify key characteristics like: form (standard or intercept/factored), vertex, axis of symmetry, zeros, y-intercept, x-intercept(s), domain, range, maximum/minimum, and increasing/decreasing. Know the correct NOTATION!

a. $y = 2x^2 + 4x + 1$



Form:

Vertex:

Axis of Symmetry:

Zeros:

y-intercept:

x-intercept(s):

Domain:

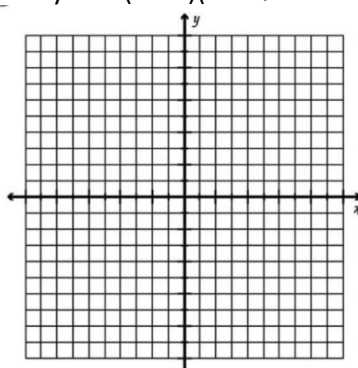
Range:

Max/Min

Increasing:

Decreasing:

b. $y = -4(x - 7)(x - 3)$



Form:

Vertex:

Axis of Symmetry:

Zeros:

y-intercept:

x-intercept(s):

Domain:

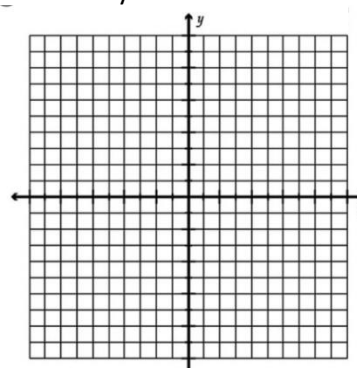
Range:

Max/Min

Increasing:

Decreasing:

c. $y = x^2 - x - 12$



Form:

Vertex:

Axis of Symmetry:

Zeros:

y-intercept:

x-intercept(s):

Domain:

Range:

Max/Min

Increasing:

Decreasing: