Quadratic Reindeer!

You are going to create your own Paraba-deer!

Here's what you need to do!

1. Start by **drawing a parabola** of your choice. Make sure that your parabola is truly a parabola.

2. **Identify the points** for your Reindeer's nose and eyes. Make sure your reindeer has antlers (arrows)!

3. Now you will need to **write the equation** for your parabola! You may use any form you prefer!

4. **Convert** your equation into the two other forms.

5. Make your picture look like a reindeer!!!

make sure your points are clearly labeled!

THIS IS DUE ON MONDAY AS A QUIZ GRADE!

Grade is based on the <u>accuracy</u> of your parabola, points, and equations!

Points will be awarded for creativity and neatness!

Standards Addressed

Algebra 1

MGSE9-12.A.SSE.3 Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

MGSE9-12.F.IF.8 Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.

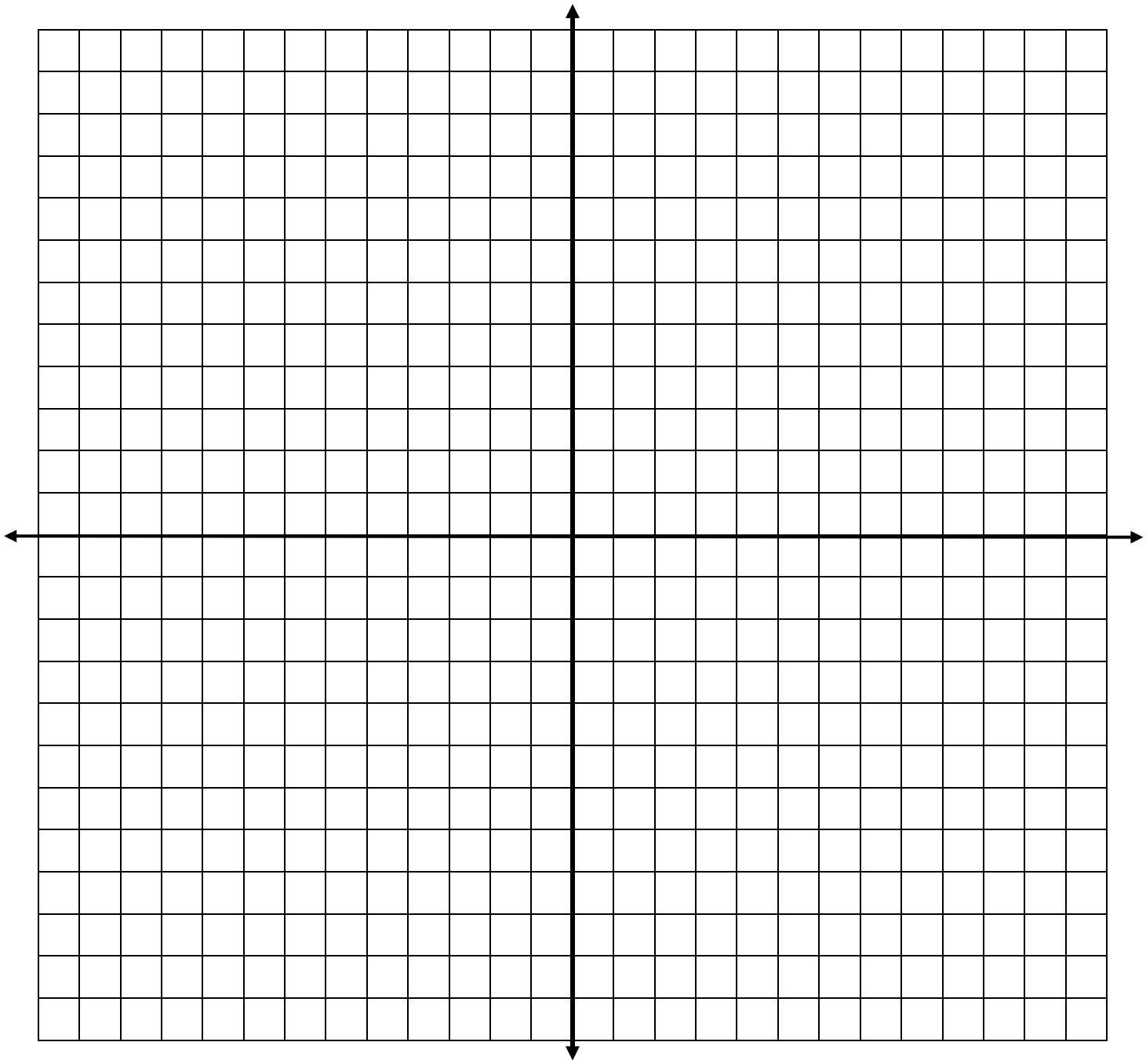
MGSE9-12.F.BF.3 Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs.

Visual Art

VA8.CR.2 Choose from a range of materials and/or methods of traditional and contemporary artistic practices to plan and create works of art.

VA8.CR.4 Incorporate formal and informal components to create works of art.

VA8.CN.1c. Identify specific knowledge and skills from other disciplines that inform the planning and execution of artworks.



Vertex Form

Intercept Form

If possible!

Standard Form

Information about quadratic

Vertex _____

AOS _____

Solve for x-int/roots/zeros

_____

Name