**Algebra 2**

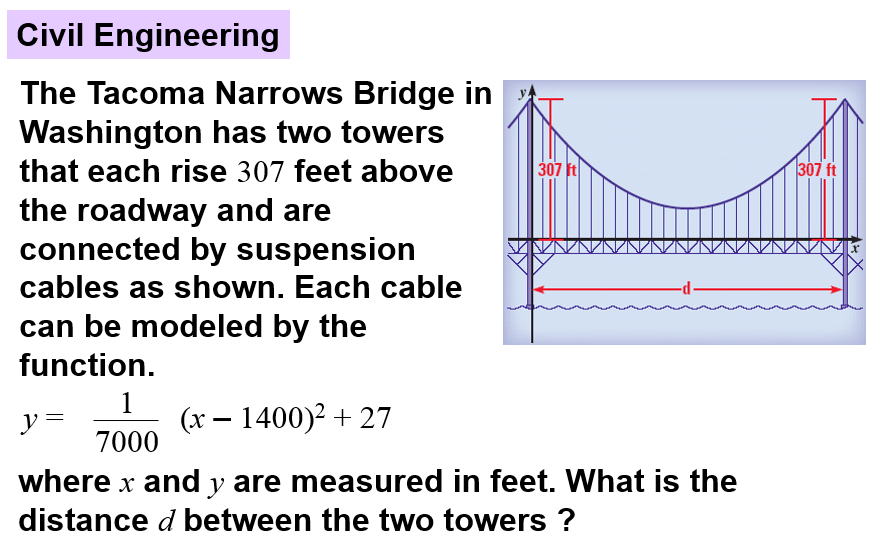
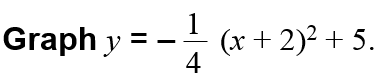
**1.2 Graph Quadratic Functions in Vertex and Intercept Form**

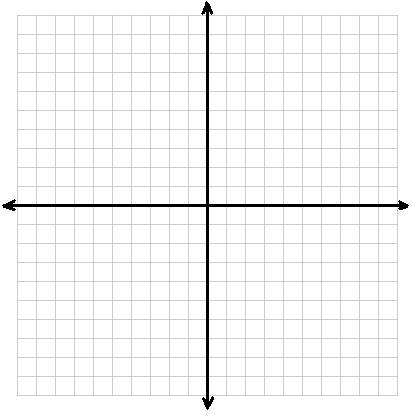
**Starter(s): Find the vertex and the axis of symmetry for each quadratic function:**

**1. 2.**

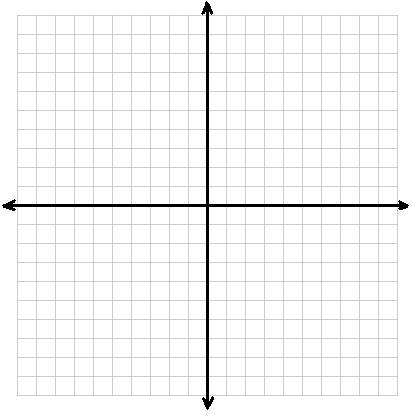
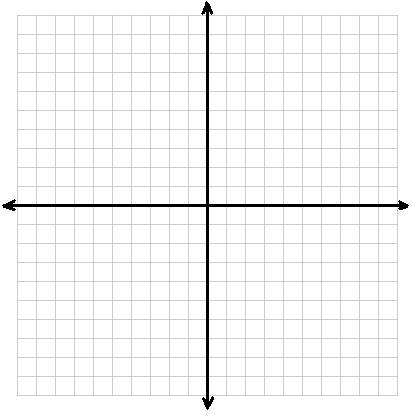
**------------------------------------------------------------------------NOTES-------------------------------------------------------------------------------**

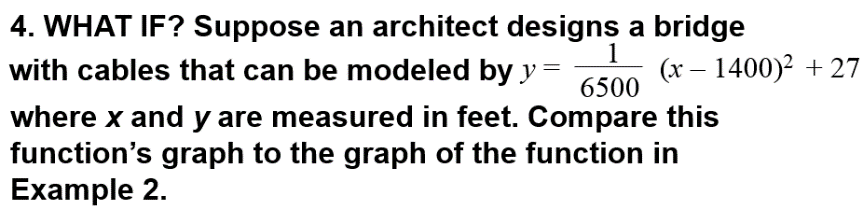
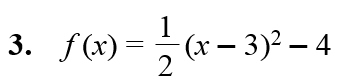
**EXAMPLE 1: Graph a Quadratic in Vertex Form EXAMPLE 2 Use a Quadratic Model in Vertex Form**

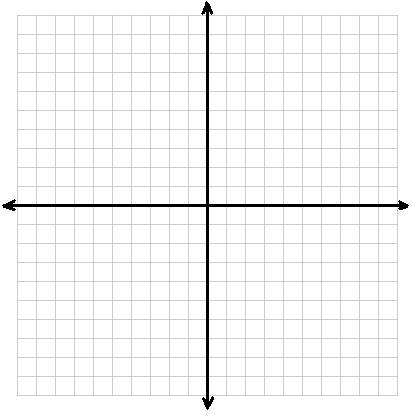


****

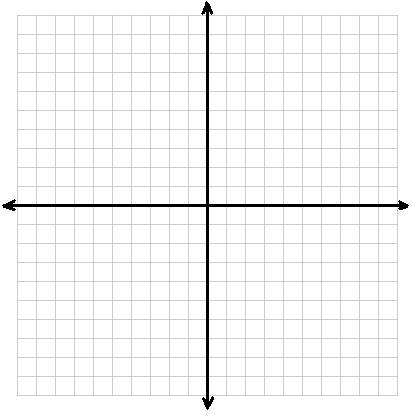
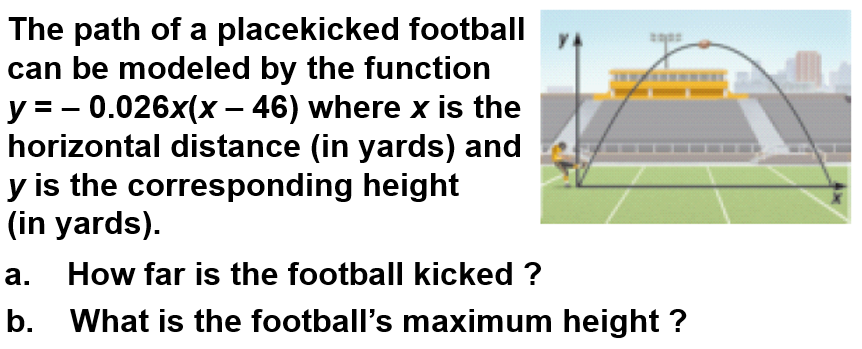
**YOU TRY:**

****

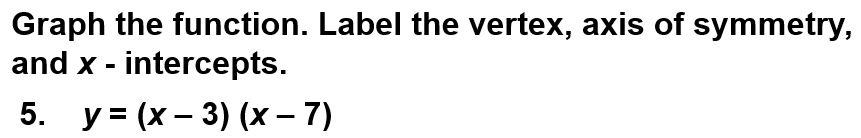


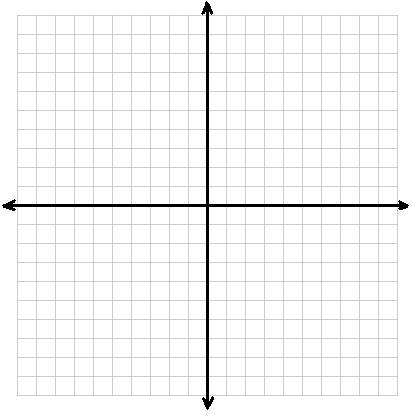
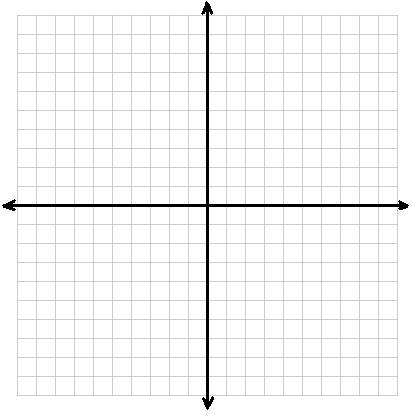
****

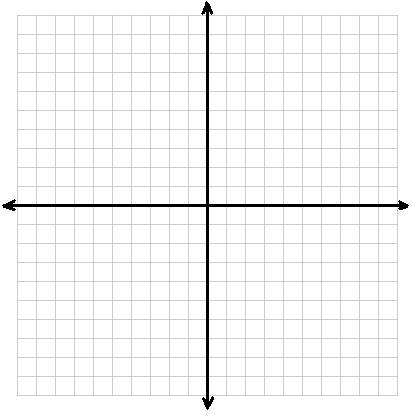
**EXAMPLE 3 Graph a Quadratic Function in Intercept Form EXAMPLE 4 Use a Quadratic Function in Intercept Form**

****

**YOU TRY:**



****

**** **8. WHAT IF? In Example 4, what is the maximum height of the football if the football’s path can be modeled by the function *y* = *–* 0.025*x*(*x –* 50)?**

**EXAMPLE 5: Change from Intercept Form to Standard Form EXAMPLE 6: Change from Vertex Form to Standard Form**



**YOU TRY:**

