GSE Algebra 1 **7.3 – notes** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graphing in standard form.

What is the equation for vertex form: Equation for standard form:

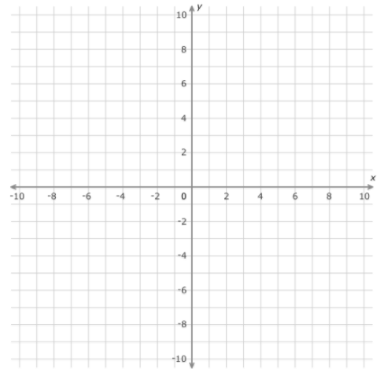
Let’s multiply through to get into standard form.

1. 2) 3)

Now let’s look at a problem in vertex form and standard form.

What form:

List out all the information needed to graph.



Let’s look at this problem. Can you easily find the vertex here?

**Let’s list out the a, b and c for the equation above.**

**a: b: c:**

We need to use

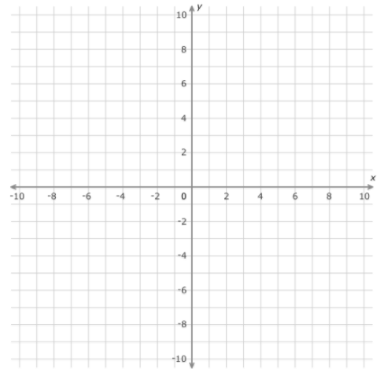
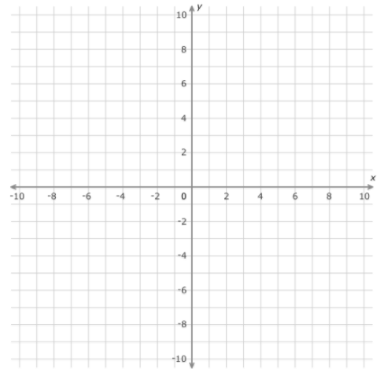
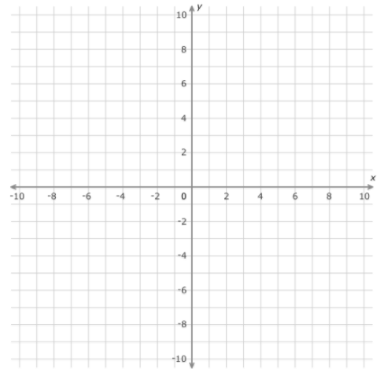
Let’s find the x – value of the vertex 1st. (**H**) Then substitute x into the equation to find the y – value. (**K**)

Find **a.**  Now let’s create the vertex form equation:

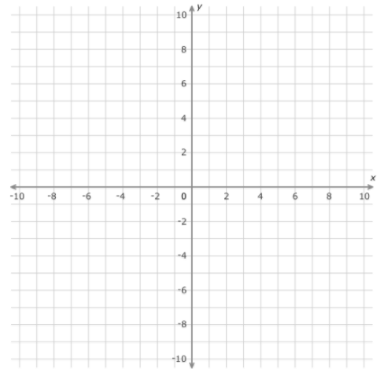
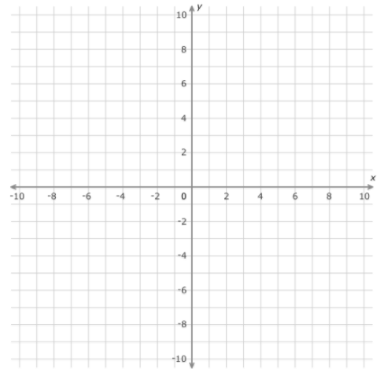
How does this equation compare to the previous problem? Same? Different?

Let’s try some more. We are going to convert from **STANDARD** **FORM** to **VERTEX** **FORM** (so we can **GRAPH**).

1. 2) 3)



1. 5)  6) 

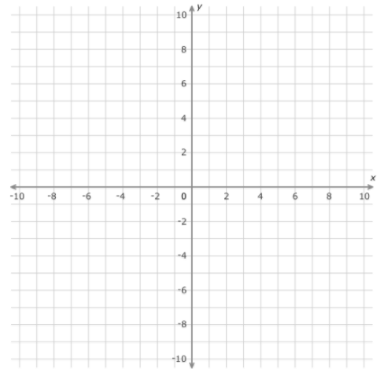


**BIG PROBLEM!**

Let’s list out the information we know.

x-ints: standard form: y-int:

Convert to vertex form from standard form above.



List all the shifts that occur. Now graph it!