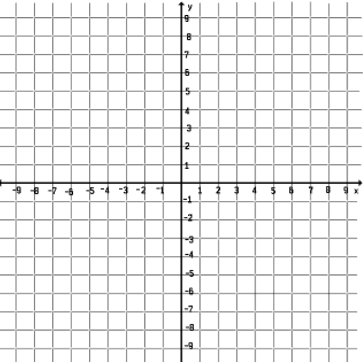
GSE Algebra 1 **7.4 – notes** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Vertex** vs. **Standard** vs. **Intercept** forms

Vertex form Standard form Intercept form

Given the following scenario, create the equation in **vertex** form.

* You are ordering a quilt for a family member. The length of the square is reduced by 3 and then you add a little piece of fabric at the end that is 4 square meters.

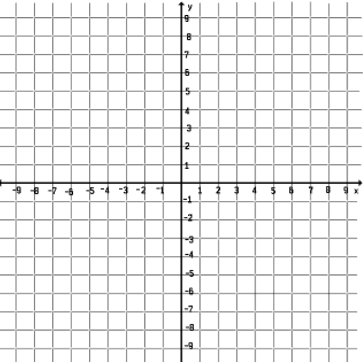


Describe the shifts that have happened to this equation. Graph it.

Now let’s look at this equation. What form is this?

Let’s convert it to vertex form using

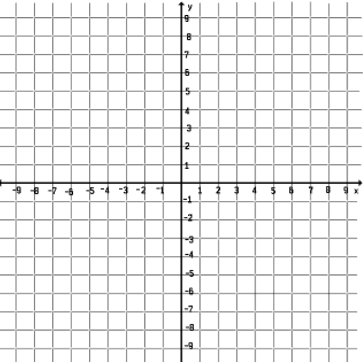
Graph it here.



Convert the following into **vertex** form. Convert the following into **standard** form.

What form is the equation below in?

Convert it to standard form.

Then convert it to vertex form. Graph it here.

Try this one.

What form is this one in?

Convert it to **standard** form. Then convert it to **vertex** form.

Write out **vertex** form. Write out **standard** form. Write out **intercept** form.

Label what form each one is in.

1. 2) 3)

Convert *from* **vertex** form to **standard** form.

1. 5) 6)

Convert *from* **standard** form to **vertex** form.

1. 8) 9)

Convert *from* **intercept** to **standard** form.

1. 11) 12)

Where has each graph **moved**? ***List out all the transformations***.

1. 14) 15) 16)

Let’s graph some.

1. 