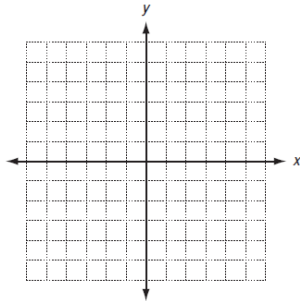


Find the domain and range for the following (if necessary use your calculator help see the graph)

1

$$y = x^2 + 4$$

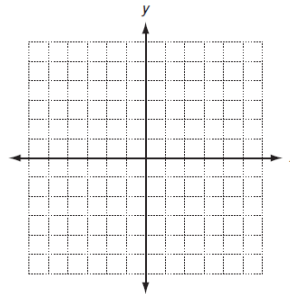


Domain:

Range:

2.

$$y = -x^2 - 3$$

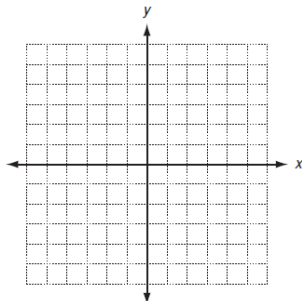


D:

R:

3.

$$y = 2x + 1$$



Domain:

Range:

**Hint:**

**step 1:** use your calculator to plot the function

**step 2:** what values of x can satisfy the function?

Always think about what happens if I put in  $-\infty$  ?

What happens if I put in  $+\infty$  ?

**Step 3:** What values can y be based upon looking at the curve of the function?

**Step 4:** Are there values of y that cannot exist?