

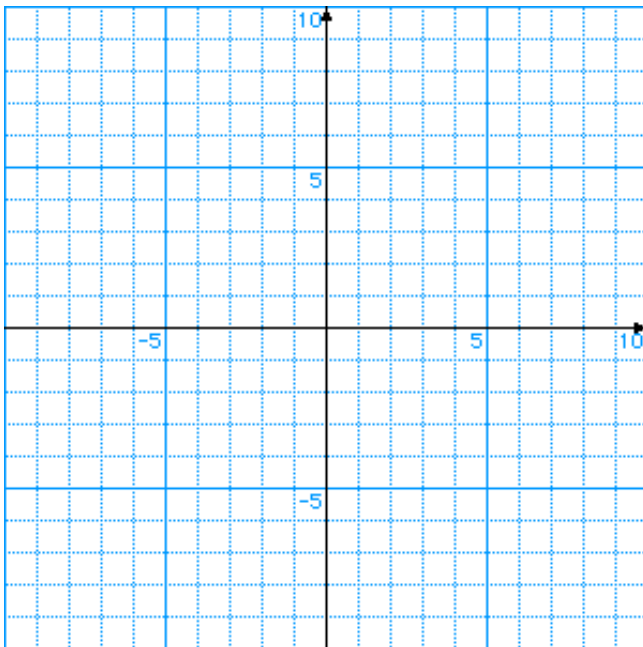
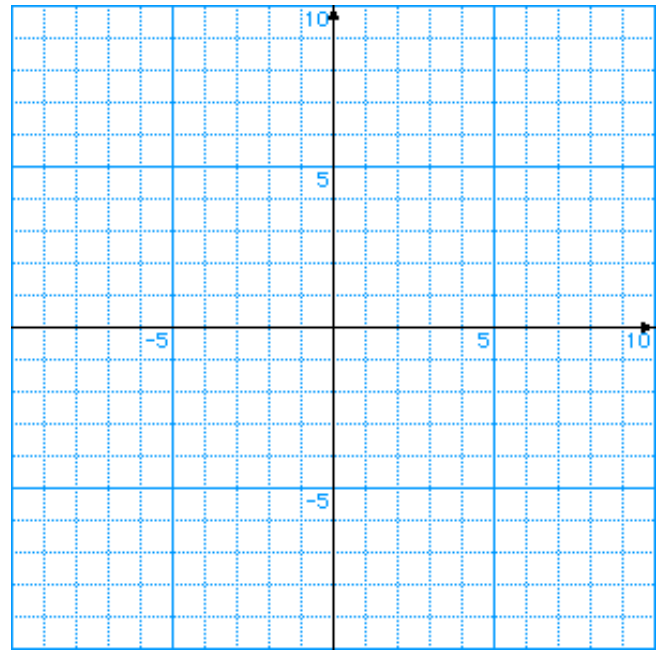
Reflections Assignment

Name: _____

1. For each of the following equations, draw

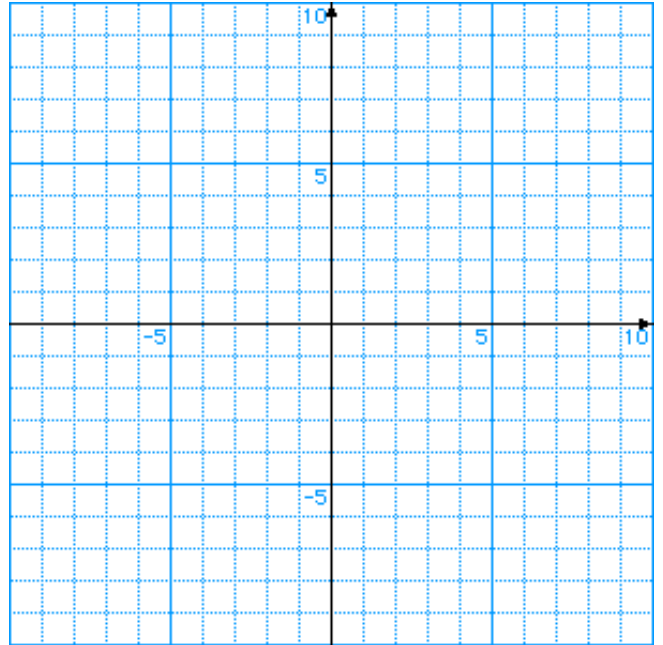
- $y = f(x)$
- $y = f(-x)$
- State the equation of the new function.
- State the domain, range, and any asymptotes if they exist.

$$f(x) = x^2 + 1$$



$$f(x) = x^3 - 1$$

$$f(x) = \sqrt{x+2}$$



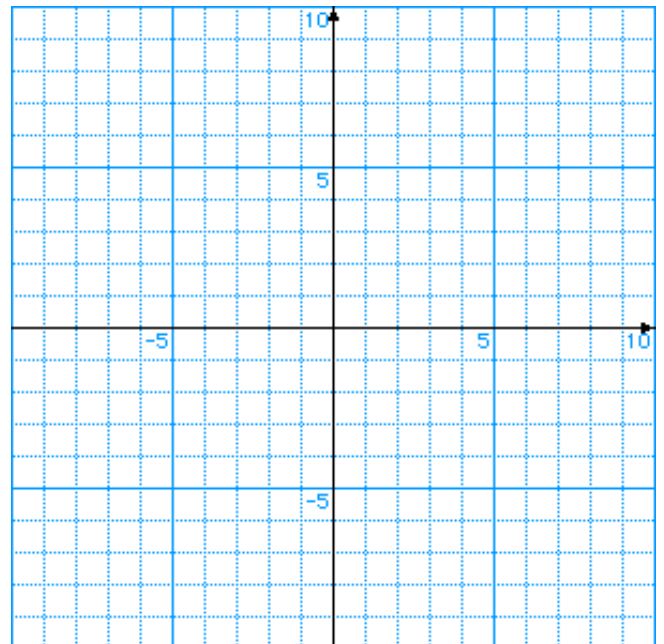
Given $y = f(x)$, in $y = f(-x)$, $(x, y) \rightarrow (-x, y)$

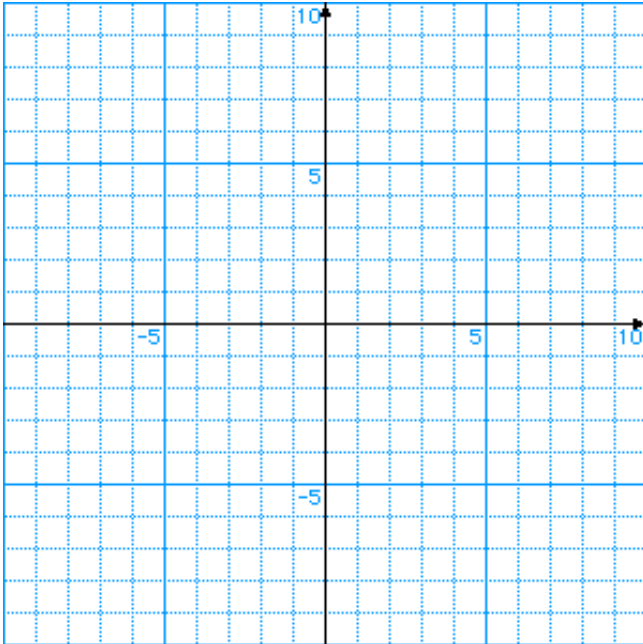
A reflection in the y-axis means that every 'x' coordinate changes sign.

2. For each of the following equations, draw

- $y = f(x)$
- $y = -f(x)$
- State the equation of the new function.
- State the domain, range, and any asymptotes if they exist.

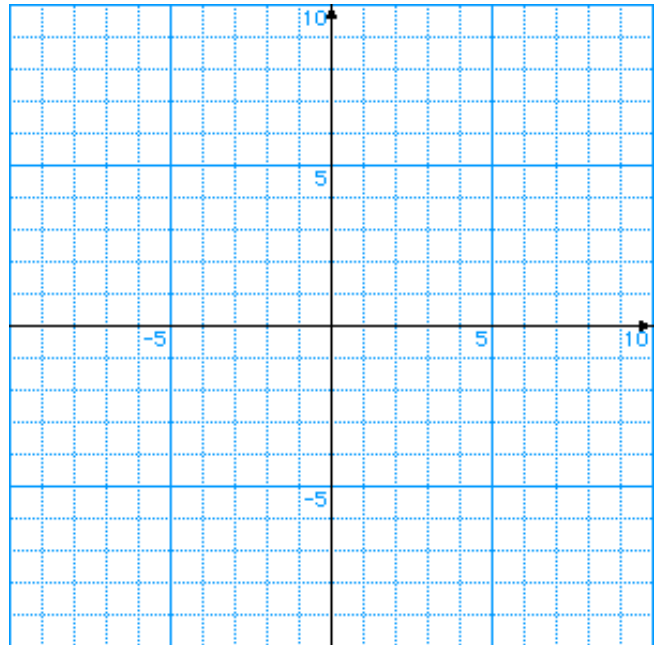
$$f(x) = |x+2|$$





$$f(x) = x^3 - 1$$

$$f(x) = \sqrt{x+2}$$



Given $y = f(x)$, in $y = -f(x)$, $(x, y) \rightarrow (x, -y)$

A reflection in the x-axis means that every 'y' coordinate changes sign.