

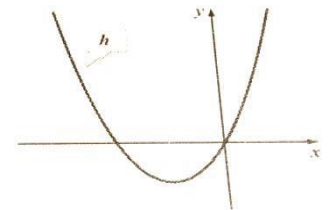
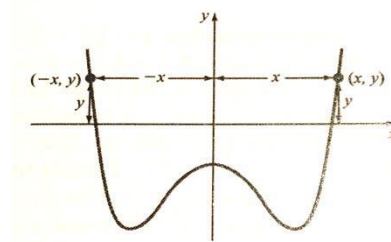
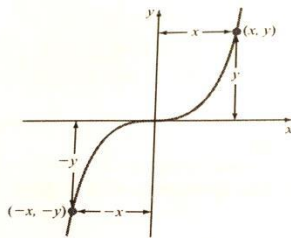
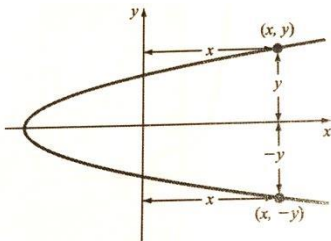
List the properties these equations have if they are symmetric to the

x-axis: _____

y-axis _____

origin _____

Match the symmetry to the correct picture (it is possible to have more than one classification)



Equations that are _____ are considered _____ functions. _____

Equations that are _____ are considered _____ functions. _____

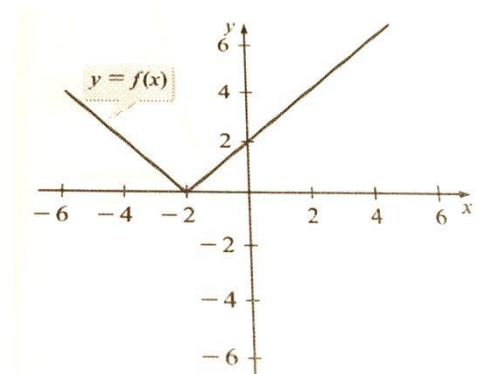
Translating (shifting) graphs horizontally and vertically:

Horizontal shift equation: _____

Vertical shift equation: _____

Example:

- A. Shift right 2
- B. Shift down 4
- C. Shift right 2 and down 4



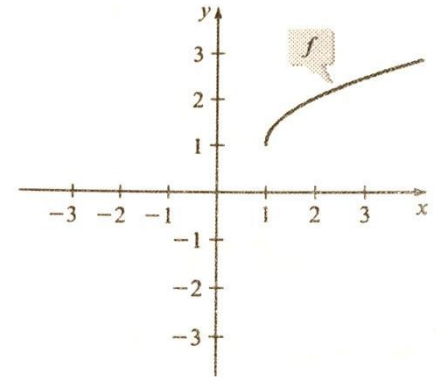
Reflecting over x-axis and y-axis:

Reflection over x-axis: _____

Reflection over y-axis: _____

Example of reflections:

- A. Over the x-axis B. Over the y-axis C. Over both



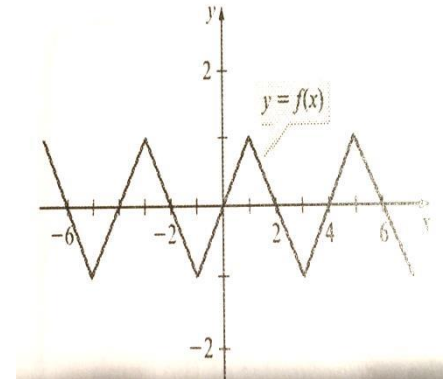
Vertical Stretching and Compression:

Vertical Stretch: _____

Vert. Compression: _____

Example of Vertical Stretching and Compression:

- A. c-value of 2 B. c-value of $\frac{1}{2}$



Horizontal Stretching and Compression:

Horizontal Stretch: _____

Horiz. Compression: _____

Example of Horizontal Stretching and Compression:

- A. c-value of 2 B. c-value of $\frac{1}{2}$

