

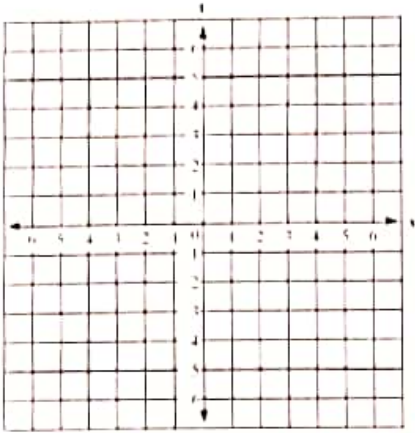
Name _____

Date _____

Per _____

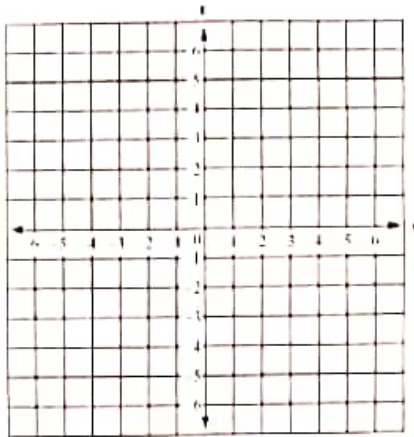
Transformations of Functions Assignment (36 points)

1.) $f(x) = x$ $f(x) = x + 3$



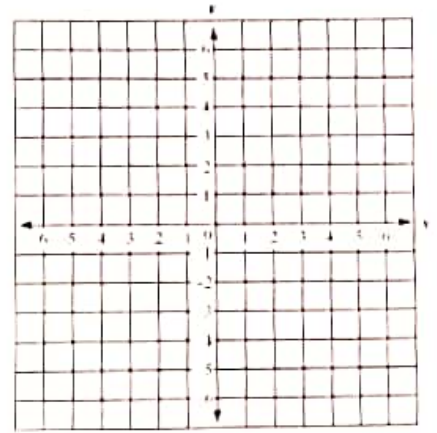
Transformation:

2.) $f(x) = x$ $f(x) = x - 3$



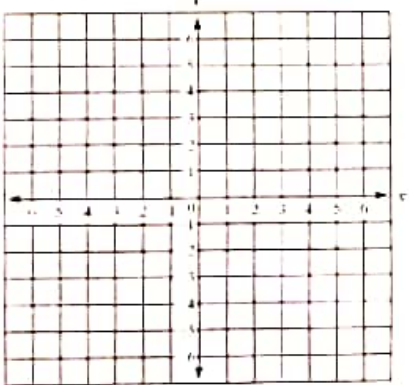
Transformation:

3.) $f(x) = x$ $f(x) = -x$



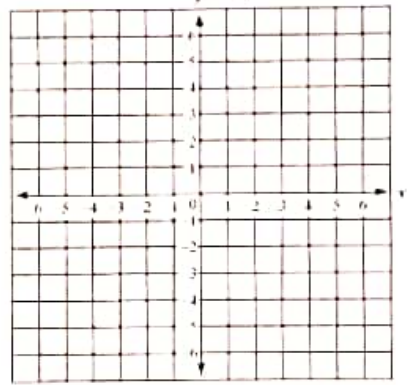
Transformation:

4.) $f(x) = x^2$ $f(x) = (x + 2)^2$



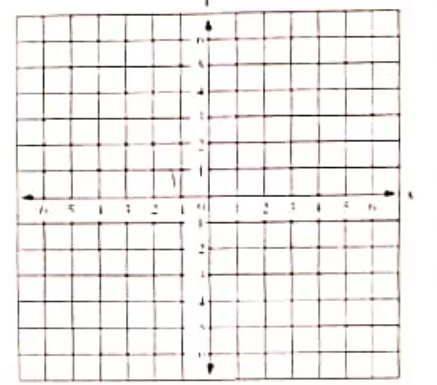
Transformation:

5.) $f(x) = x^2$ $f(x) = 3x^2$



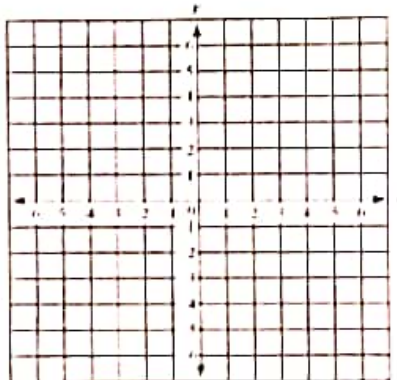
Transformation:

6.) $f(x) = x^2$ $f(x) = x^2 - 3$



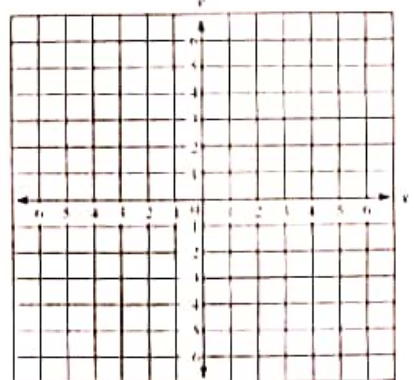
Transformation:

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



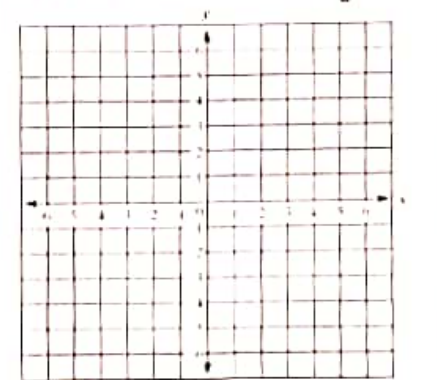
Transformation:

8.) $f(x) = |x|$ $f(x) = |x - 2|$



Transformation:

9.) $f(x) = |x|$ $f(x) = \frac{1}{2}|x|$



Transformation:

Transformations of Functions Assignment (36 points)

10.) $f(x) = 2^x$ $f(x) = 2^{(x-3)}$

Transformation:

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

Transformation:

12.) $f(x) = 2^x$ $f(x) = -2^x$

Transformation:

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

Transformation:

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

Transformation:

15.) $f(x) = \sqrt{x}$ $f(x) = 2\sqrt{x}$

Transformation:

16.) $f(x) = x^3$ $f(x) = x^3 - 2$

Transformation:

17.) $f(x) = x^3$ $f(x) = (x + 2)^3$

Transformation:

18.) $f(x) = x^3$ $f(x) = -x^3$

Transformation: