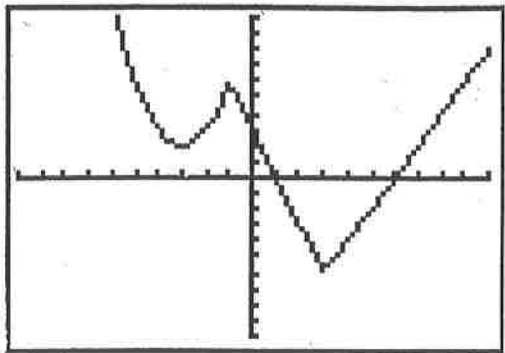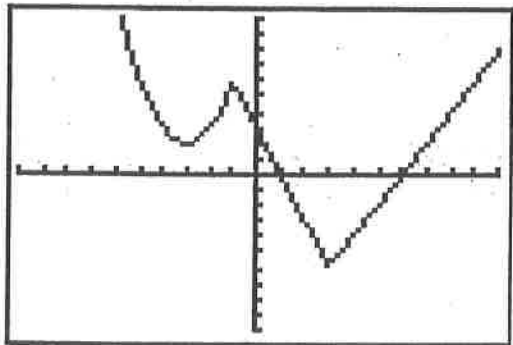## Activity 3: Transformations on Generic Graphs

Given: the generic graph shown below.

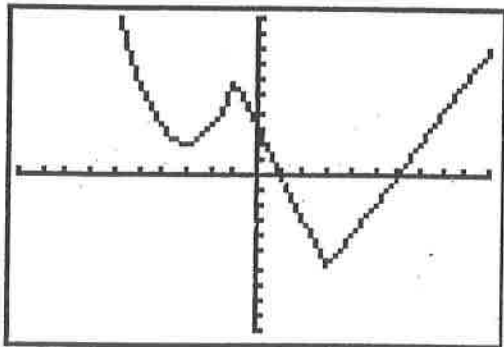Sketch the graphs of the following transformations and describe the transformations in words.
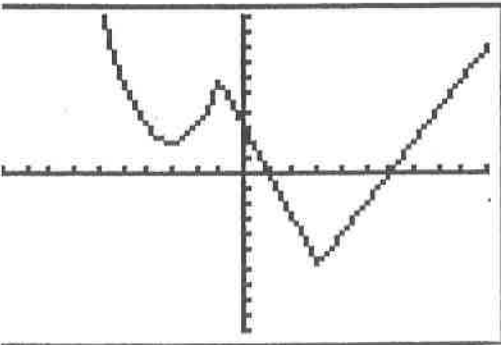
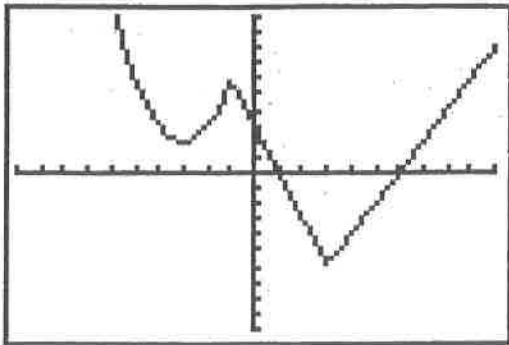1. $y = f(x+2)$ 2. $y = f(x-2)$
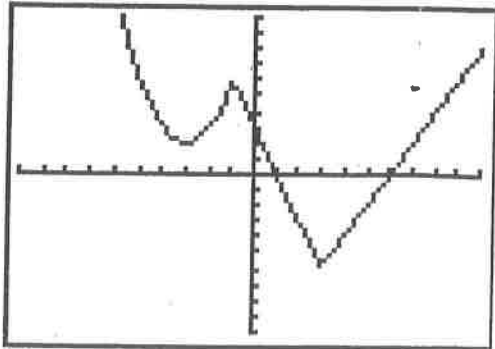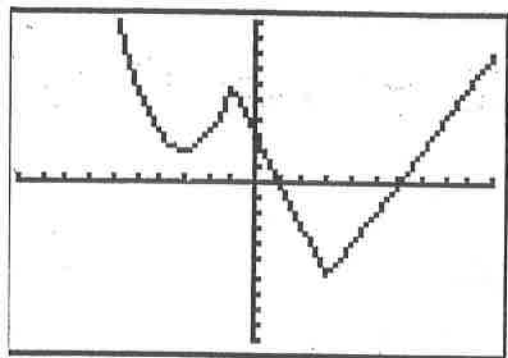
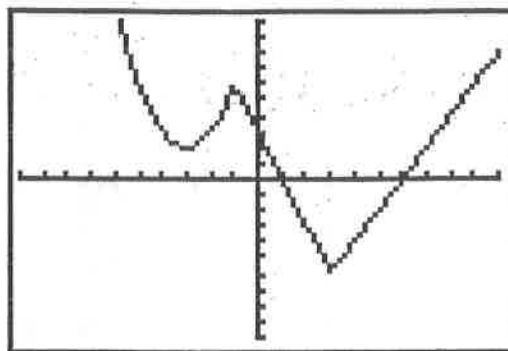

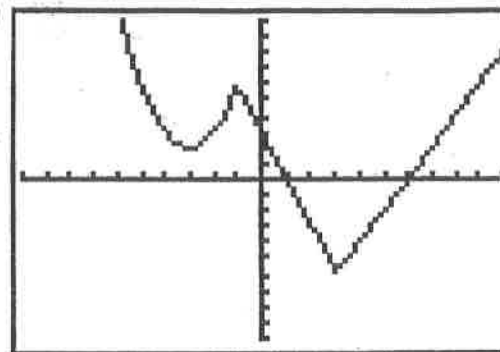3. $y = f(x)+2$ 4. $y = f(x)-2$ 5. $y = f(2x)$

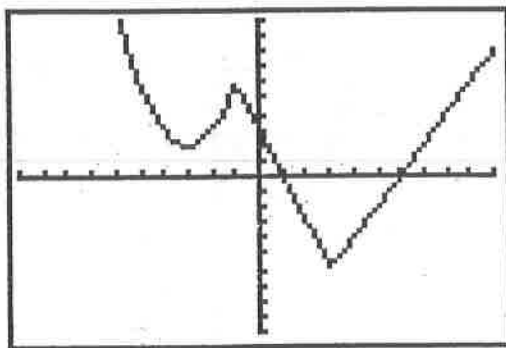6. $y = f\left(\dfrac{1}{2}x\right)$
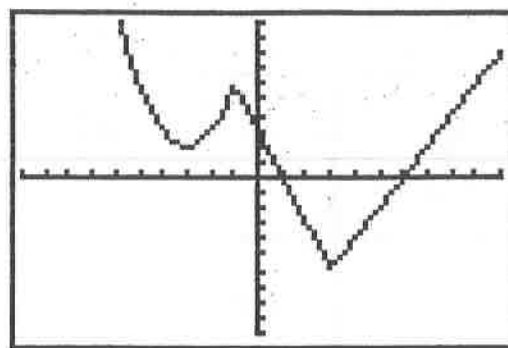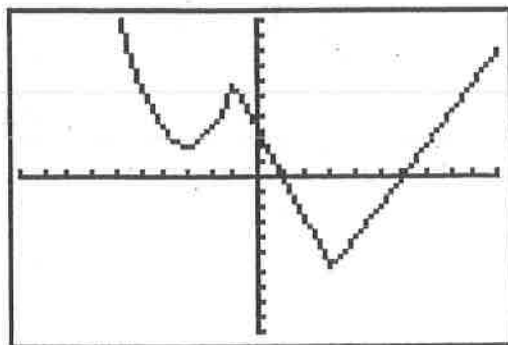
7. $y = \dfrac{1}{2}f(x)$

8. $y = 2f(x)$

9. $y = -f(x)$

10. $y = f(-x)$

11. $y = |f(x)|$

12. $y = f(|x|)$