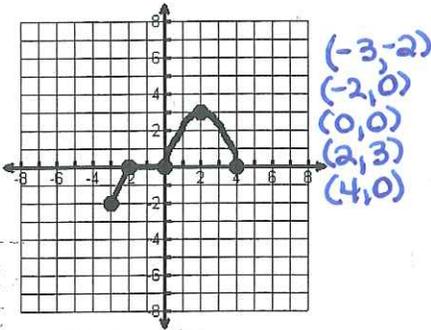


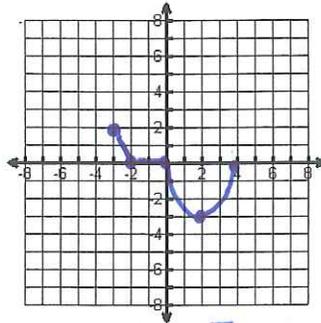
Sketch graphs of the following transformations of $f(x)$. Give the domain and range.

$y = f(x)$



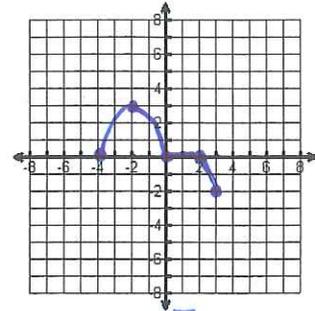
D: $[-3, 4]$
R: $[-2, 3]$

1) $y = -f(x)$



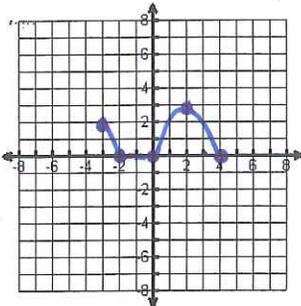
D: $[-3, 4]$
R: $[-3, 2]$

2) $y = f(-x)$



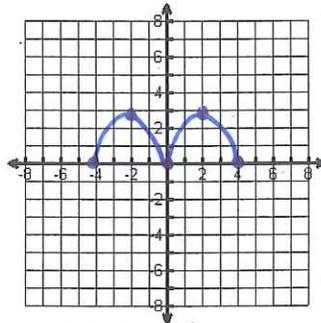
D: $[-4, 3]$
R: $[-2, 3]$

3) $y = |f(x)|$



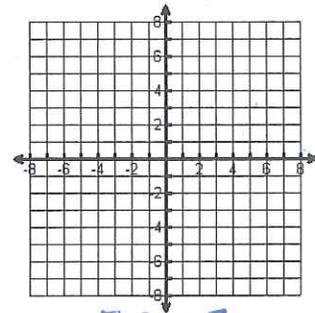
D: $[-3, 4]$
R: $[0, 3]$

4) $y = f(|x|)$



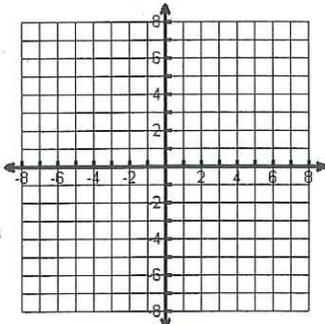
D: $[-4, 4]$
R: $[0, 3]$

5) $y = \frac{1}{2}f(2x)$



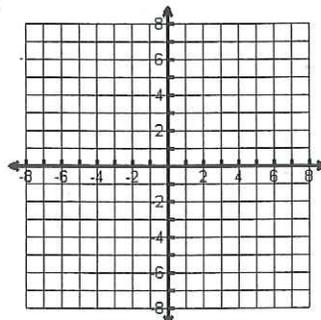
D: $[-2, 2]$
R: $[-1, \frac{3}{2}]$

6) $y = 2f(x)$



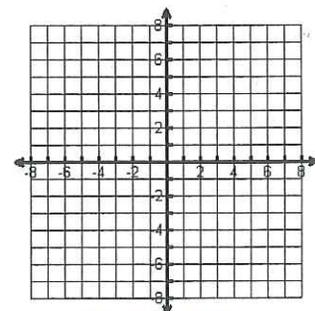
D: $[-3, 4]$
R: $[-4, 6]$

7) $y = \frac{1}{2}f(x)$



D: $[-3, 4]$
R: $[-1, \frac{3}{2}]$

8) $y = f(x + 1) + 2$
left 1 up 2



D: $[-4, 3]$
R: $[-1, 4]$