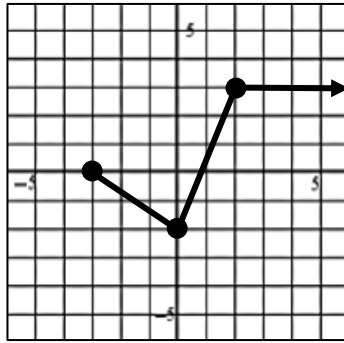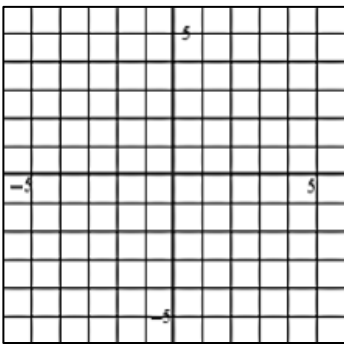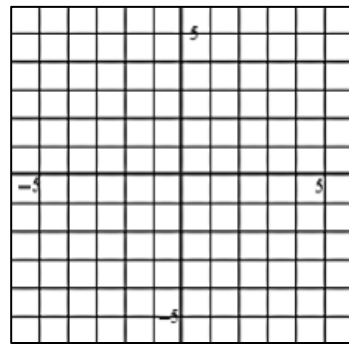Using the given graph of $f(x)$, sketch a graph of each of the following transformed functions.
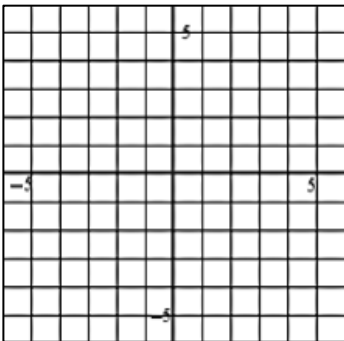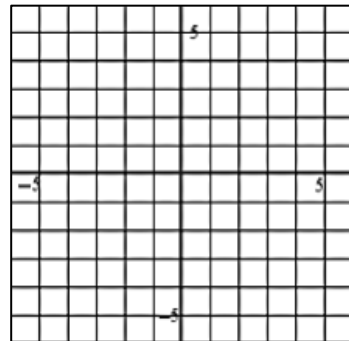

1) $y = -f(x) + 2$

2) $y = f(-x) - 1$

3) $y = \frac{1}{2}f(-(x+2))$

4) $y = -f\left(\frac{1}{2}x\right) + 3$

Describe the following transformations in words.

5) $y = -3f(2(x+6)) + 4$

6) $y = \frac{1}{2}f(9(x+2)) - 8$

7) $y = 7f\left(-\frac{1}{4}(x-2)\right) + 3$

8) $y = -f\left(-\frac{3}{2}x\right) - 1$