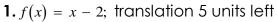
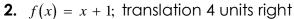
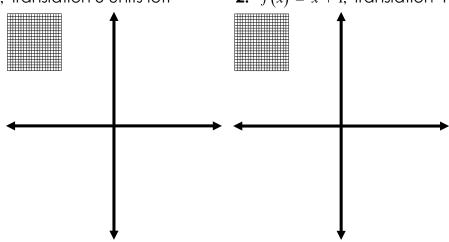
Algebra 2: Chapter 1.2 Day 1 Homework Transformations of Linear & Absolute Value Functions

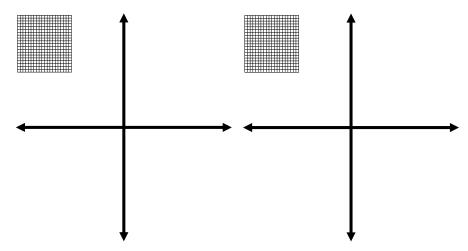
In Exercises 1–10, write a function g whose graph represents the indicated transformation of the graph of f. Then graph BOTH the original function f(x) and the transformed function g(x) on the same graph. Label each graph. You can use a graphing calculator to check your answer.



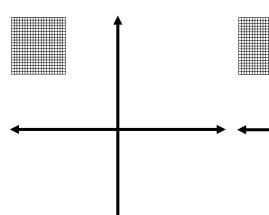




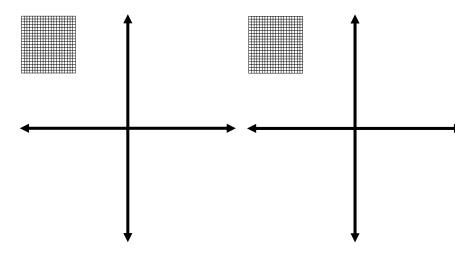
3.
$$f(x) = |3x + 2| + 4$$
; translation 3 units down **4.** $f(x) = 4x - 5$; translation 3 units up



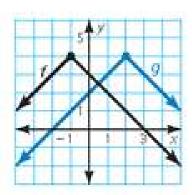
- **5.** f(x) = x 5; translation 4 units left
- **6.** f(x) = x + 2; translation 2 units to the right



- right
- **7.** f(x) = |4x + 3| + 2; translation 2 down
- **8.** f(x) = 2x 9; translation 6 units up



9. f(x) = 4 - |x + 1|



10. f(x) = |4x| + 5

