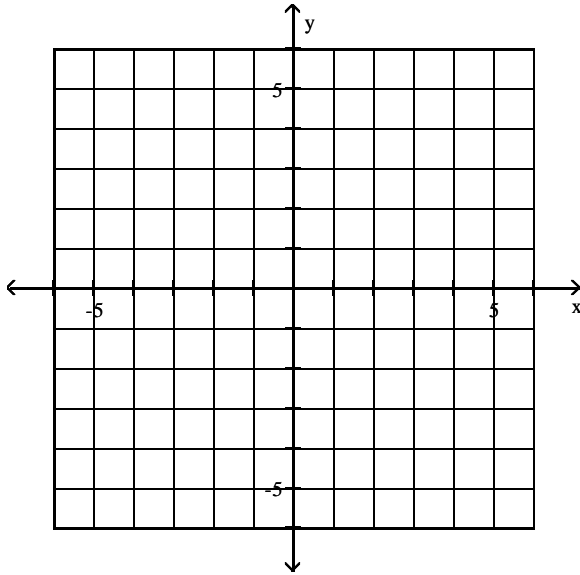


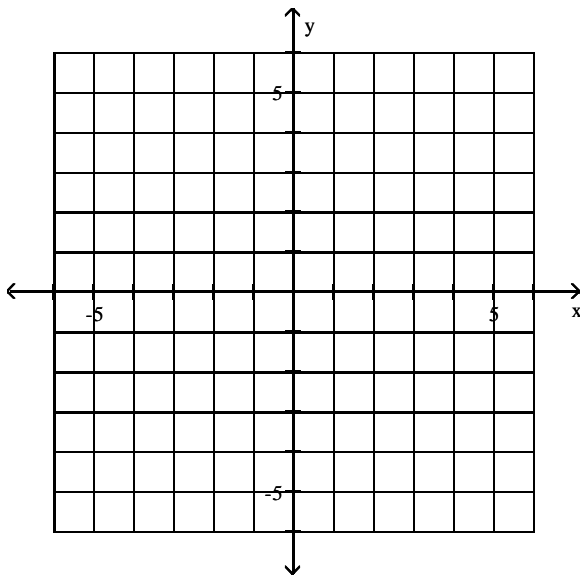
- i. Show all relevant work. No work, no credit.
- ii. Write your answers in the spaces provided on the right.
- iii. Staple when you turn in the assignment.
- iv. Due Wednesday, October 8 at the beginning of the class.

**Graph the function by starting with the graph of the basic function and then using the techniques of shifting, compressing, stretching, and/or reflecting.**

1)  $f(x) = (x - 2)^2 - 3$

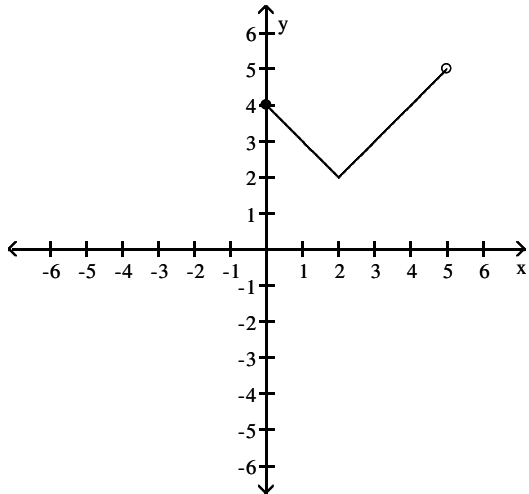


2)  $f(x) = -\sqrt{x + 1} - 2$



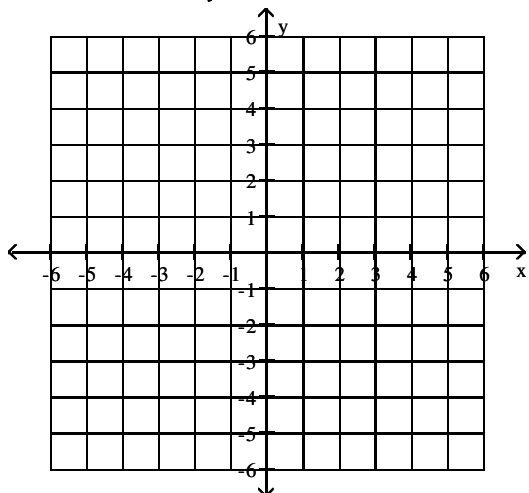
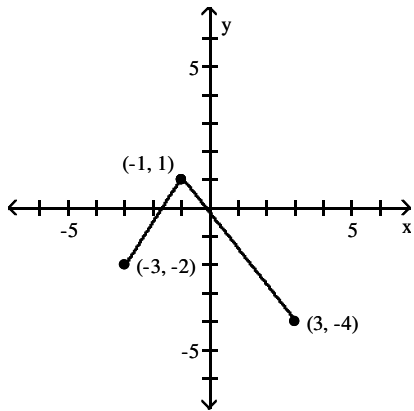
For the graph of a function  $f$ , determine the domain and the range.

3)



Using transformations, sketch the graph of the requested function.

4) The graph of a function  $f$  is illustrated. Use the graph of  $f$  as the first step toward graphing the function  $F(x)$ , where  $F(x) = f(x + 2) - 1$ .



5) The graph of a function  $f$  is illustrated. Use the graph of  $f$  as the first step toward graphing the function  $F(x)$ , where  $F(x) = 2f(-x)$ .

