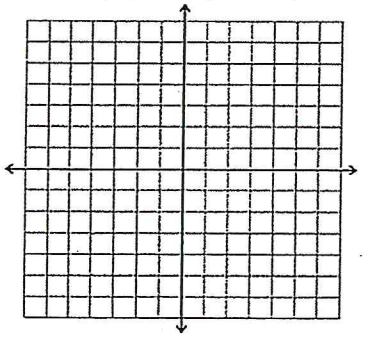
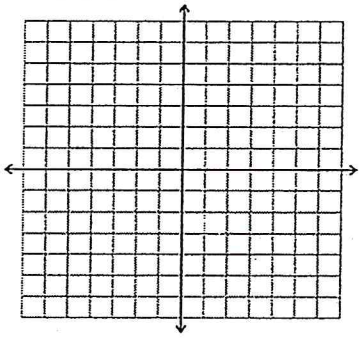
3. Graph the following functions. Find their domain and range.

$f(x) = -|x+3|$



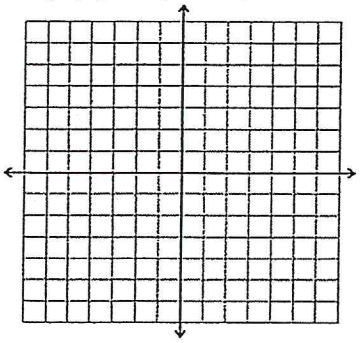
Domain:
Range:

$f(x) = \sqrt{x+5}+2$



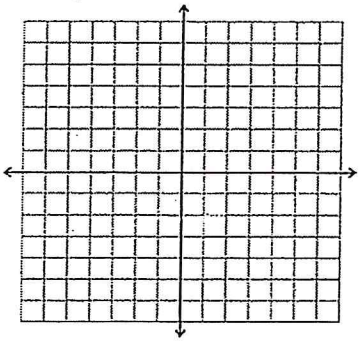
Domain:
Range:

$f(x) = (x+2)^2 - 4$



Domain:
Range:

$f(x) = -\sqrt{x}+4$

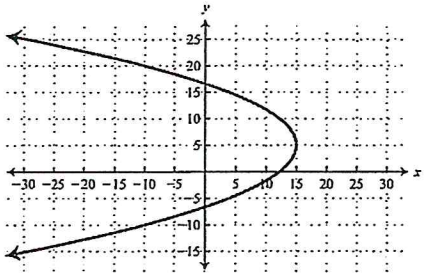


Domain:
Range:

4. For each graph below, determine whether it is a function. Then determine its domain and range in interval notation. Identify **ONE solution to the function (point on the graph)** and **ONE solution to f(x) = 0 (x-intercept).** If asked, write the equation for the graph **(assume no vertical stretch or shrink).**

a) Function? YES/NO
Domain:
Range:
Increasing:

Decreasing:



b) Function? YES/NO
Domain:
Range:
Increasing:

Decreasing: