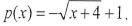
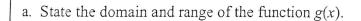
## Free Response Practice #4 Calculator NOT Permitted

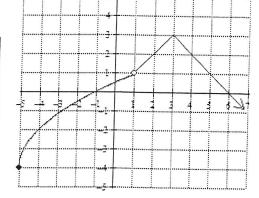
Pictured to the right is the graph of a piece-wise defined function, g(x), that consists of a piece of a square root function and a piece of an absolute value function. Also, the function p(x) is defined by the equation





Domain:

Range:\_\_\_\_



b. State how the graph of the function p(x) would be different from the graph of  $y = \sqrt{x}$ . Then, graph p(x) on the same grid as g(x) using a minimum of 4 points plotted on the graph.

c. State what would be graphically true if p(x) = g(x). Then, state for how many x – values p(x) = g(x).

d. Find the value of 3[p(12)-2g(4)g(-5)]. Either show your work or explain how you determined the values of p(12), g(4) and g(-5).