Functions Involving Radicals

1. Evaluate each radical function at the indicated values.

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

$a) f(12)$

$b) f(8)$

$c) f(-3)$

2. Evaluate each radical function at the indicated values.

$$H(x) = \sqrt[3]{\frac{x-3}{x-2}}$$

$a) H(4)$

$b) H(7)$

$c) H(-2)$

3. Find the domain of the radical function.

$$g(x) = \sqrt{5x-2}$$

4. Find the domain of the radical function.

$$h(x) = \sqrt[5]{7x-1}$$

5. Find the domain of the radical function.

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

6. (a) Determine the domain of the function; (b) graph the function, (c) based on the graph, determine the range of the function.

$$g(x) = \sqrt{x-2}$$

7. (a) Determine the domain of the function; (b) graph the function, (c) based on the graph, determine the range of the function.

$$g(x) = \sqrt[3]{x+1}$$