

# Graphing Square Root Functions Exit Quiz

1. Based on your knowledge of parameter changes, describe the  $a$ ,  $h$ , and  $k$  in  $y = a\sqrt{x-h} + k$ .

$a$  -

$h$  -

$k$  -

2. How would each of the following graphs change in relation to the parent graph?

a.)  $y = \sqrt{x} - 14$

b.)  $y = \sqrt{x+9} + 5$

c.)  $y = \sqrt{x-6} - 1$

3. Identify domain and range  $y = \sqrt{x-2} + 2$

a.)  $D: [2, \infty]$   $R: [-2, \infty]$

b.)  $D: [2, \infty]$   $R: [2, \infty]$

c.)  $D: [-2, \infty]$   $R: [0, \infty]$

4. Identify function with domain and range  $D: [-12, \infty]$   $R: [12, \infty]$

a.)  $y = \sqrt{x} + 12$

b.)  $y = \sqrt{x+12} + 12$

c.)  $y = \sqrt{x+1} - 12$

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5. Graph  $f(x) = \sqrt{x-2}$  and  $g(x) = \sqrt{x+2}$

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

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

x	y

x	y

