

5.3 WS - Graphing Radicals

Graph each function and determine the domain and range.

1)

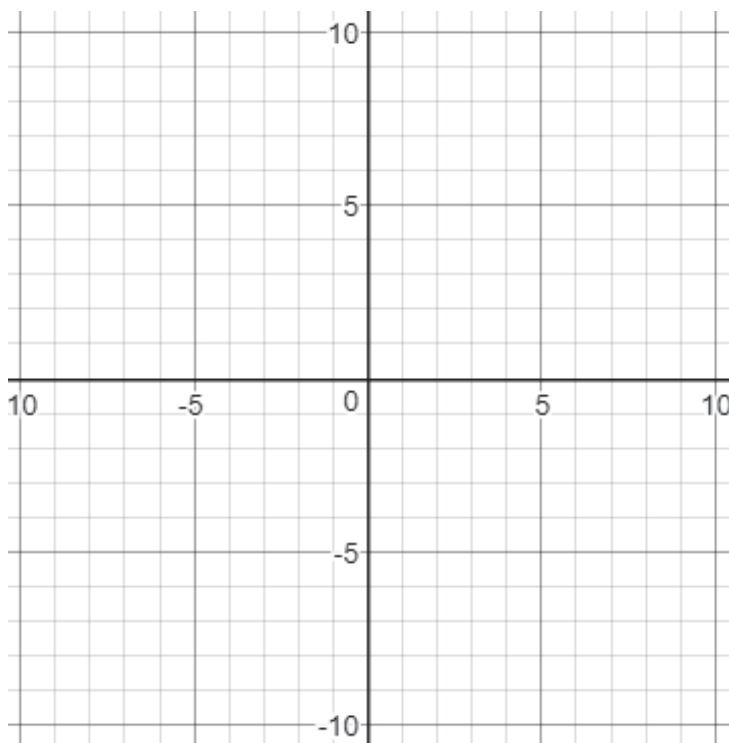
$$y = \sqrt{x + 3}$$

Domain:

Range:

h, k

a = (,)



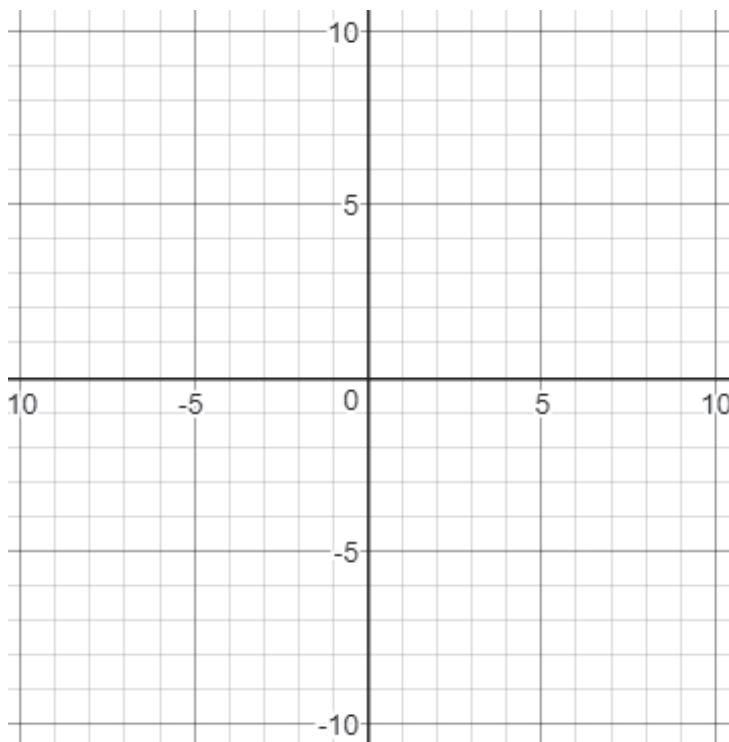
2)

$$y = \sqrt{x} - 5$$

Domain:

Range:

a = (,)



3)

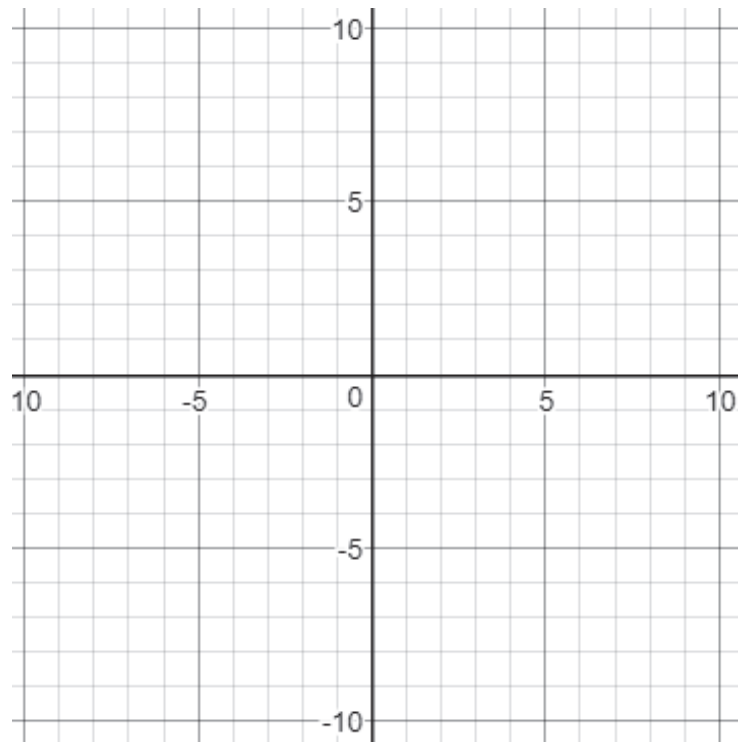
$$y = 2\sqrt{x+4}$$

Domain:

Range:

h, k

$a = (\quad , \quad)$



4)

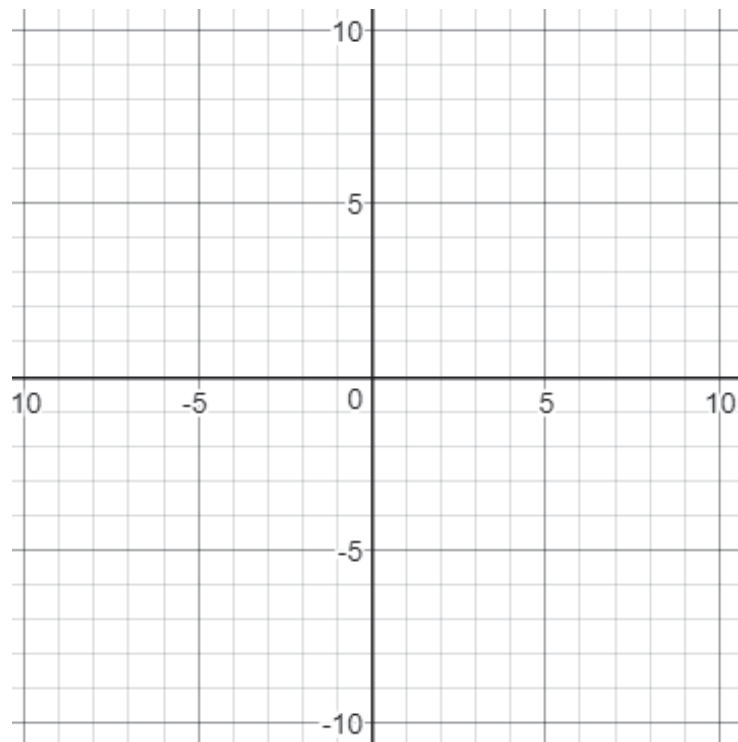
$$y = \frac{-1}{2}\sqrt{x+7} + 2$$

Domain:

Range:

h, k

$a = (\quad , \quad)$



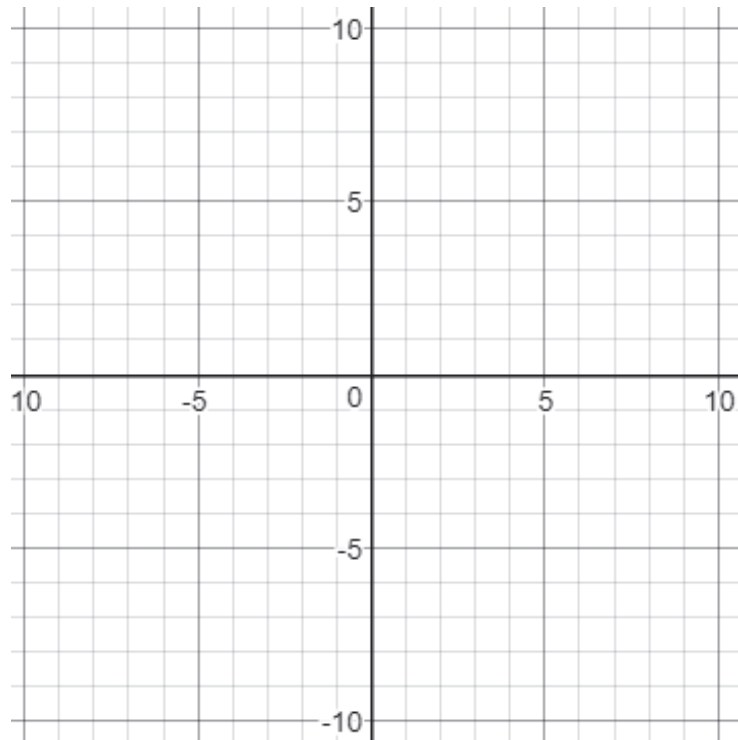
5) $y = 3\sqrt{x+8} - 4$

Domain:

Range:

h, k

$a = (\quad , \quad)$



6)

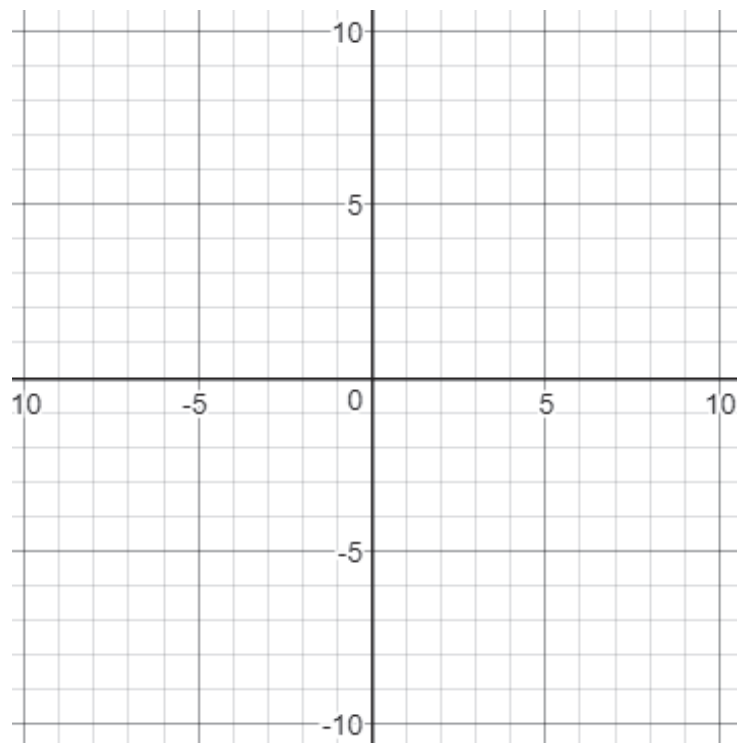
$$y = \frac{-1}{2}\sqrt{x+6} - 3$$

Domain:

Range:

h, k

$a = (\quad , \quad)$



7)

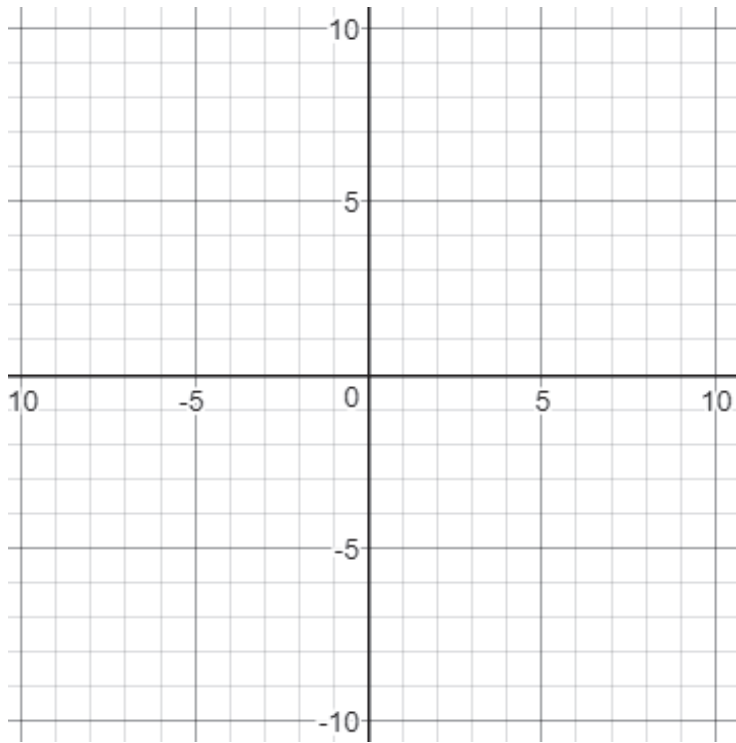
$$y = -2\sqrt{x-1} + 6$$

Domain:

Range:

h, k

a = (,)

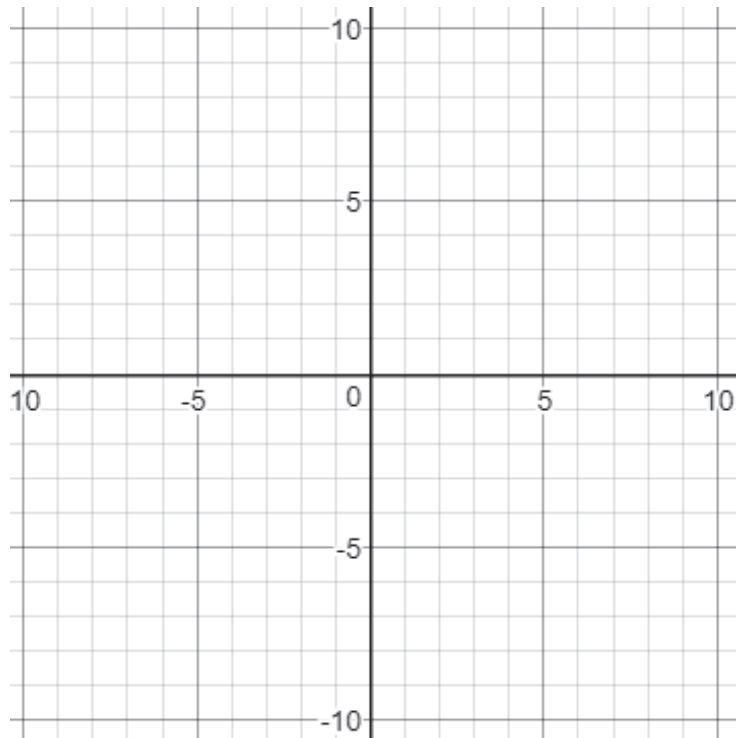


8)

a) $y = \sqrt{x}$

b) $y = -\sqrt{x}$

c) $y = x^2$



Graph all 3 on the same graph

What do you notice about the graphs of a&b compared to the graph of c?

What do you notice about their table of values