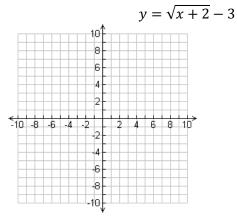
6.3: Graphing Radical Functions

Graph each function. Then identify the listed properties. Show all work.

1)



Domain:

Range:

Max/Min:

x-intercept(s):

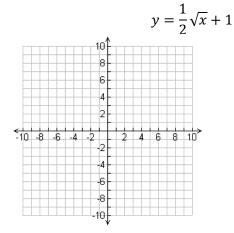
y-intercept:

Increasing:

Decreasing: Positive:

Negative:

2)



Domain:

Range:

Max/Min:

x-intercept(s):

y-intercept:

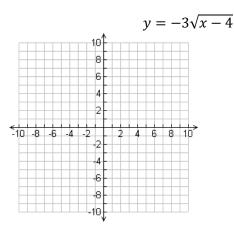
Increasing:

Decreasing:

Positive:

Negative:

3)



Domain:

Range:

Max/Min:

x-intercept(s):

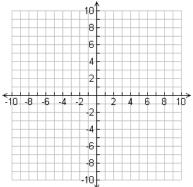
y-intercept:

Increasing: Decreasing:

Positive:

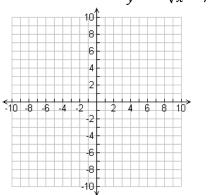
Negative:





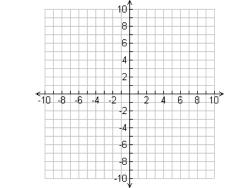
5)

$$y = -\sqrt[3]{x-7} - 2$$



6)

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



Domain:

Range:

Max/Min:

x-intercept(s):

y-intercept:

Increasing:

Decreasing:

Positive:

Negative:

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Range:

Max/Min:

x-intercept(s):

y-intercept:

Increasing:

Decreasing:

Positive:

Negative:

Domain:

Range:

Max/Min:

x-intercept(s):

y-intercept:

Increasing:

Decreasing:

Positive:

Negative:

Answer each question thoroughly. Show all work.

Find the average rate of change over the 7) given interval.

$$y = -\sqrt{x} - 3$$
; [4, 25]

Find the average rate of change over the 8) given interval.

$$y = \sqrt[3]{x - 5}; [6, 32]$$