

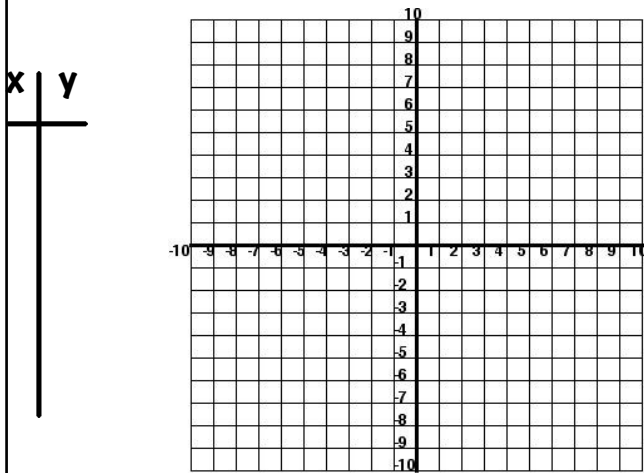
Honors Algebra II

Notes Section 3.5

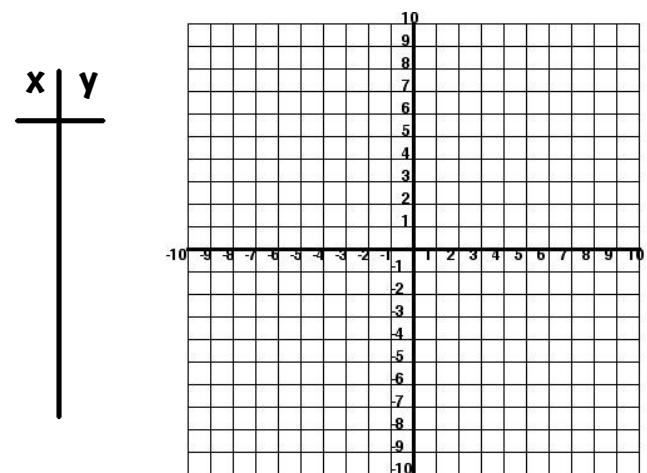
Graph Square Root and Cube Root Functions

PARENT FUNCTIONS

I. Square Root $f(x) = \sqrt{x}$



III. Cube Root $g(x) = \sqrt[3]{x}$



Domain: _____ Range: _____

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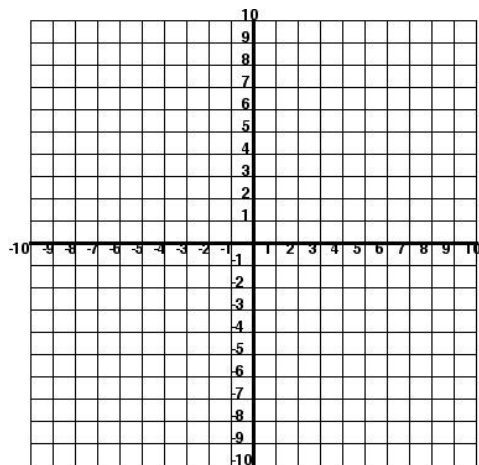
EXAMPLE 1 Graph and state the domain and range. Describe the transformation.

a) $y = 1/2\sqrt{x}$

D: _____

R: _____

T: _____



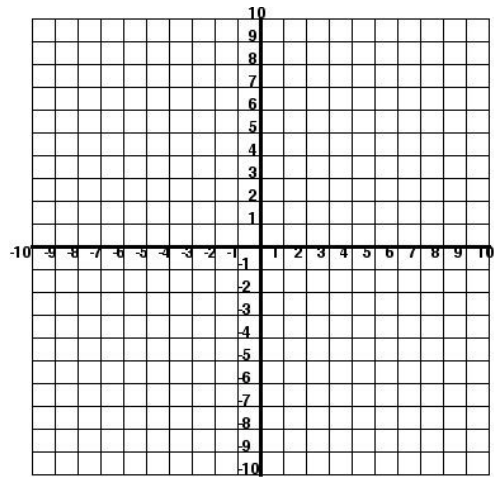
b) $y = -2\sqrt{x}$

x	y

D: _____

R: _____

T: _____



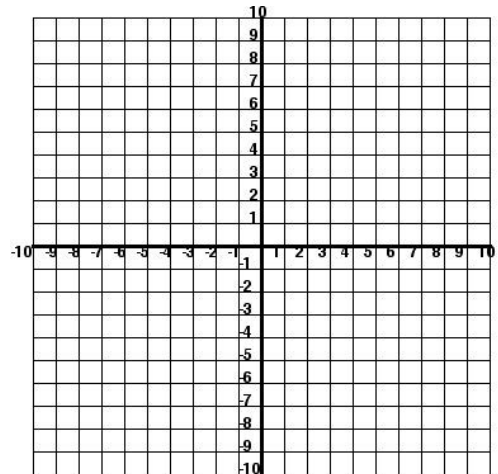
c) $y = -3\sqrt[3]{x}$

x	y

D: _____

R: _____

T: _____



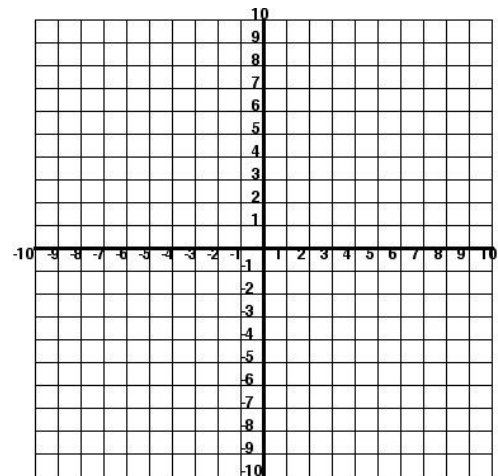
d) $y = 3/2\sqrt[3]{x}$

x	y

D: _____

R: _____

T: _____



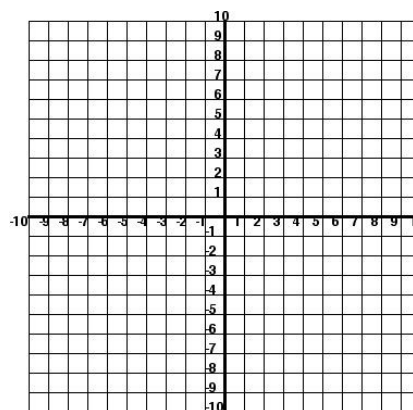
b) $y = 3\sqrt{x+4} - 4$

D: _____

R: _____

T: _____

x	y



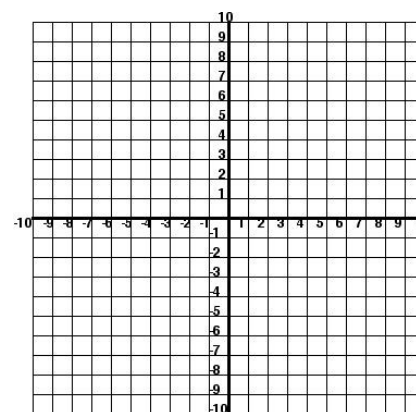
c) $y = 3\sqrt[3]{x+4} - 1$

D: _____

R: _____

T: _____

x	y



d) $y = -5/2\sqrt[3]{x-2} + 3$

D: _____

R: _____

T: _____

x	y

