

## Section 7.9: Square Root Functions and Inequalities

**Objectives:** Graph and analyze square root functions.

Graph square root inequalities.

**Square Root Function:** a function that contains a square root; resembles a curve (not a line, parabola, etc.)

### Graph a Square Root Function

EX 1: Graph  $y = \sqrt{3x + 4}$

\*Since the function cannot be negative, we must first find the minimum value of  $x$ . This is the point where we will start graphing. To do this, we say the value under the radical is greater than or equal to zero.

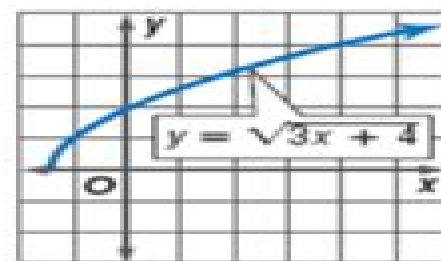
$$3x + 4 \geq 0$$

$$3x \geq -4$$

$$x \geq -\frac{4}{3}$$

\*Now that we know the minimum value of  $x$ , we plug in values that are greater than this number to find other points.

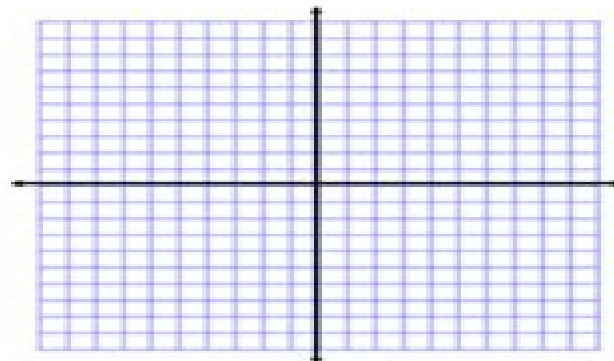
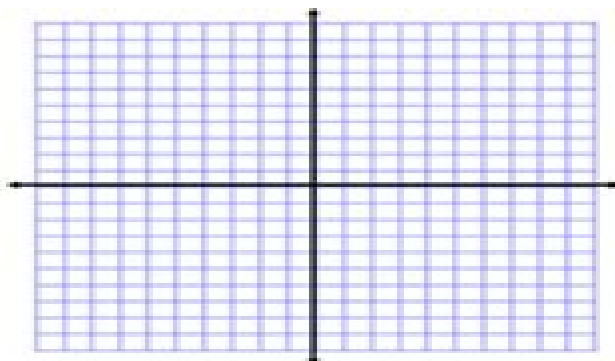
$x$	$y$
$-\frac{4}{3}$	0
-1	1
0	2
2	3.2
4	4



### EXTRA EXAMPLES

Graph  $y = \sqrt{2x - 4}$

Graph  $y = \sqrt{x - 1}$



# Square Root Inequalities Worksheet

**D Siedentop**



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