











Worksheet on Square Root Functions (V2)

Equation	Basic Shape	"vertex"	Value of a	Up/Down	Left/Right	Final Shape
$y = \sqrt{-x-8} + 9$						
$y = -6\sqrt{7+x} - 5$						
$y = -9 + \sqrt{7-x}$						
$y = \sqrt{3x-7}$						
$y = -2\sqrt{x-9} + 2$						

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Equation	Basic Shape	"vertex"	Value of a	Up/Down	Left/Right	Final Shape
$y = \sqrt{-x-8} + 9$		$(-8, 9)$	1	UP	Left (-x)	
$y = -6\sqrt{7+x} - 5$		$(-7, -5)$	-6	down	right (+x)	
$y = -9 + \sqrt{7-x}$		$(7, -9)$	1	up	Left (-x)	
$y = \sqrt{3x-7}$		$(\frac{7}{3}, 0)$	1	up	right (+x)	
$y = -2\sqrt{x-9} + 2$		$(9, 2)$	-2	down	right (+x)	

$3x - 7 = 0$
 $3x = 7$
 $x = \frac{7}{3}$