Name:	Period:	First	First attem	npt due:	Final	
Practice Worksheet: Graphing Radical Functions		Score:	Final corre	rrections due:		
Graph each radical function and describe its characteristics. Round irrational values to one decimal place.						
1] $y = 2\sqrt[3]{x-4} + 2$	$2] y = 3\sqrt{x+2}$	- 4		3] $y = -4\sqrt[3]{-(x-1)} - 6$		
Center point: y-intercept:	Endpoint: y-intercept:		Center point: y-intercept:			
Guide points using <i>a</i> :	Guide point using <i>a</i> :			Guide points using <i>a</i> :		
Extra guide points: (-4,) and (7,) $ \begin{array}{c}                                     $	Extra guide poin (2,) a (2,) a (3,) a	ts: nd (7,	567	Extra guide points: (4,) and (9,) -1 + 2 + 3 + 5 + 6 + - 4 + - 6 + - 4 + - 6 + - 4 + - 4 + 6 + 4 + 6 + 6 + 6 + 6 +		
4] $y = -\frac{1}{2}\sqrt{-x} + \frac{3}{2}$	5] $y = \frac{3}{4}\sqrt[3]{-x - x}$	4		6] $y = -9\sqrt{x-2} + 3$		
Endpoint: y-intercept: Guide point using <i>a</i> :	Center point: Guide points usi	y-int ng <i>a</i> :	ercept:	Endpoint: y-inte Guide point using <i>a</i> :	rcept:	
Extra guide points: $(-9, \_\_\_)$ and $(-4, \_\_])$ 7/4 3/2 5/4 1/2 1/2 -10 - 9 - 8 - 7 - 6 - 5 - 4 - 3 - 2 - 1 - 1 Domain: Range:	Extra guide poin (-12,) : 	ts: and (2,	) /2 /4 /4 /4 /4 /4 /4 /4 /2 /4 /4 /2 /4 /4 /4 /2 /4 /4 /4 /4 /4 /4 /4 /4 /4 /4	Extra guide points: (6,) and (11,) $-2 - 1_3$ 1 2 3 4 5 6 7 $-2 - 1_3$ 1 2 3 4 5 6 7 -6 - 9 -12 -15 - 18 -24 - 24 Domain: Range:		
		0				

Write the equation of the radical function.



Describe each graph as compared to the parent graph.



Write the equation that meets the given description. Show all work.

13] A radical function that has a	14] A radical function that has a	15] A cube root function translated	
center point at (4,1) and passes	domain of $x \le 8$ and a range of	6 units to the left and down half of	
center point at (4,1) and passes through the point $\left(12, \frac{1}{3}\right)$ .	domain of $x \le 8$ and a range of $y \ge 15$ that passes through the point (-8,63).	6 units to the left and down half of a unit that passes through the point (-7, -8.5).	