

Rewrite each function to make it easy to graph using transformations of its parent function. Describe the graph.

1)
$$y = \sqrt{9x - 27}$$

 $y = \sqrt{9(x - 3)}$
 $y = 3\sqrt{x - 3}$
 $right 3 units$
 $\sqrt{9x - 27} + 3$
 $\sqrt{9x - 27} + 3$

 $(2)_{y=-2}\sqrt{4x+16}$ $y = -2 \int Y(x+y)$ $y = -2(2) \int x+y$ $y = -4 \int x+y$ $left \quad y = -4 \int y = -4$

×+4=0 -4-4 ×=-4

3) Y= 364x+128 Y= 367(x+2) Y= 4 3 x+2 left 2 units

 $(4) \dot{y} = \sqrt[3]{8x-2y} + 1$ $y = \sqrt[3]{8(x-3)} + 1$ $y = \sqrt[3]{x-3} + 1$

16. You can use the equation t = ¹/₄ √d to find the time t, in seconds, it takes an object to fall d feet after being dropped.
a. Graph the equation.



