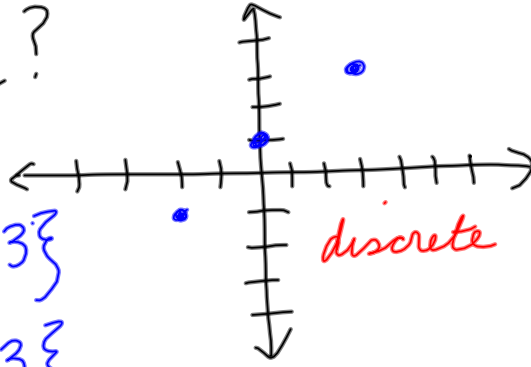


function?  
yes

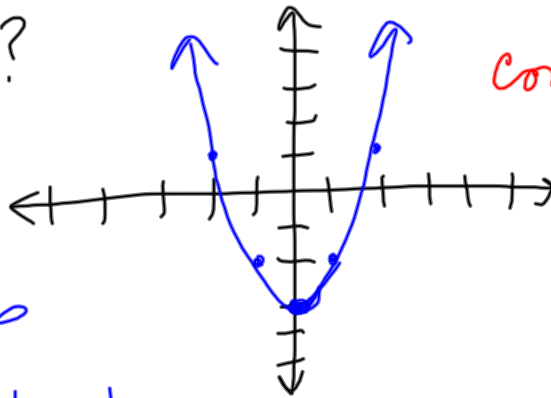
D:  $\{-2, 0, 3\}$   
R:  $\{-1, 1, 3\}$



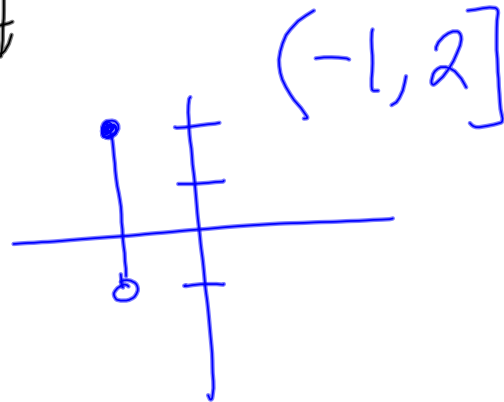
Vertical line test:  
a vertical line drawn on the graph only hits one point at a time  $\rightarrow$  function

function?  
yes

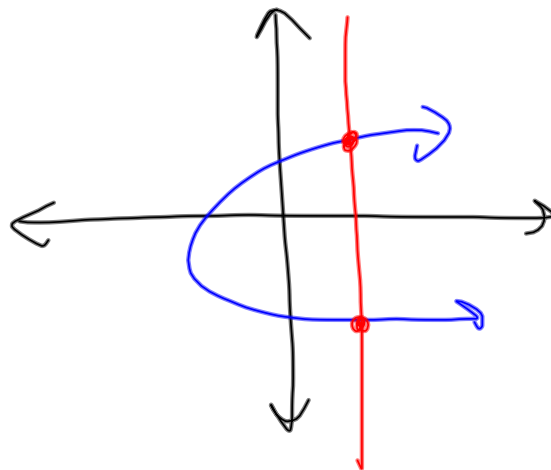
D:  $\mathbb{R}$   
 $-\infty < x < \infty$   
 $(-\infty, \infty)$  interval notation  
R:  $y \geq -3$   
 $[-3, \infty)$



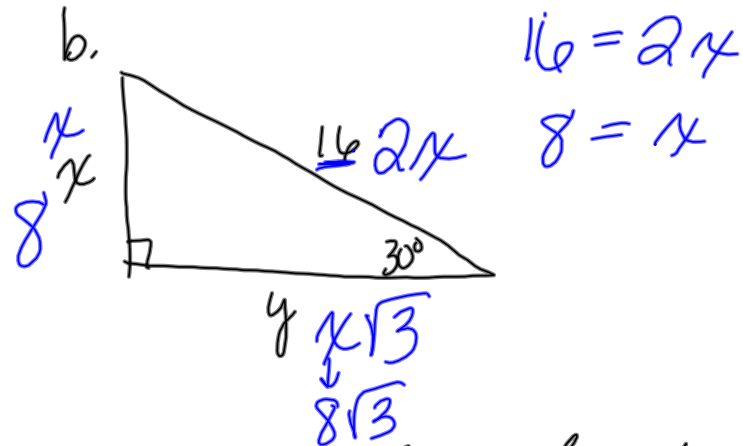
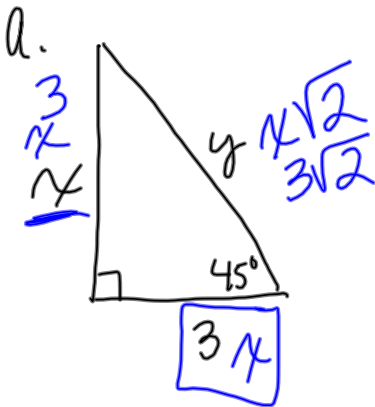
continuous



function:  
no



Find the exact values of  $x$  and  $y$ .



Find one positive + one negative angle coterminal with

a.  $135^\circ$

$$+ 360$$


---

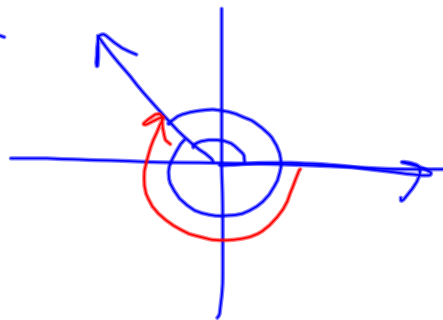

$$495^\circ$$

$$135 - 360 = -225^\circ$$

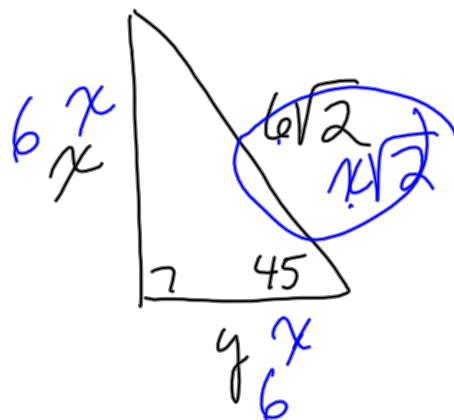
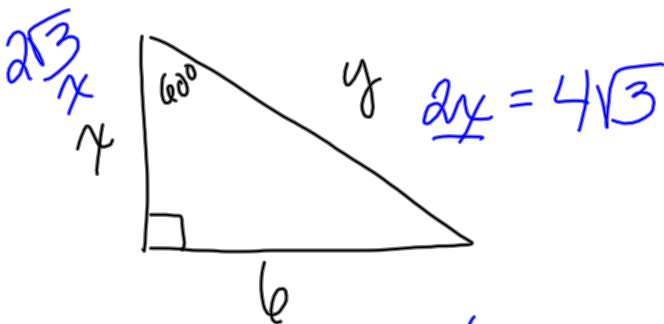
$$\frac{-135}{225}$$

b.  $\frac{5\pi}{3} \pm 2\pi - \frac{6\pi}{3}$

$$\frac{11\pi}{3}, \frac{-6\pi}{3}$$



$$\frac{2\pi \cdot 3}{1 \cdot 3} = \frac{6\pi}{3}$$

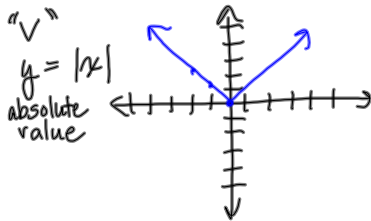
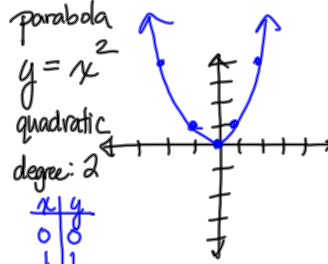
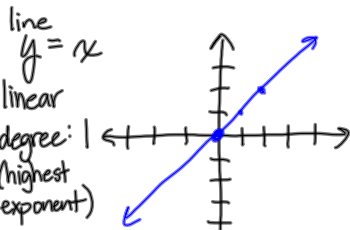


$$\frac{2\sqrt{3}}{\sqrt{3}} = \frac{6}{\sqrt{3}}$$

$$x = \frac{6}{\sqrt{3}} = \frac{6\sqrt{3}}{3} = 2\sqrt{3}$$

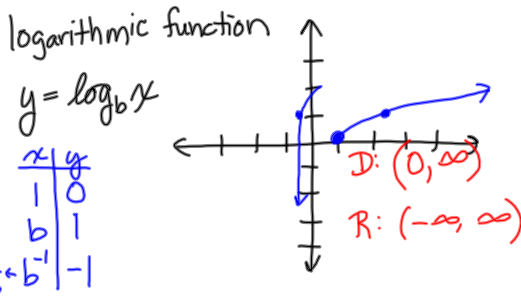
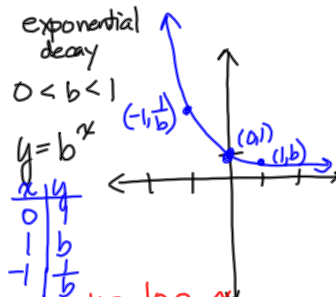
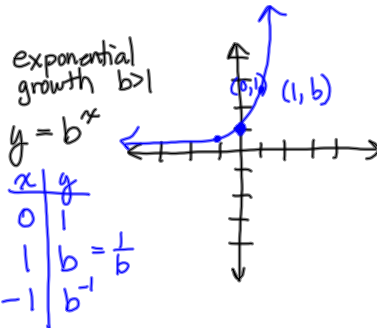
Graphs of functions [included = (not incl. < D: ARN R: [0, ∞)

Parent functions



x	y
0	0
1	1
-1	1

$y = b^x$   
 $y = b^0$   
 $y = b^1$   
 $y = b^{-1}$



trigonometric functions

