

## DRILL

Ex:

① What is the value of  $f(2)$  if

$$f(x) = 3^{x+1} - 4$$

$$f(2) = 3^{2+1} - 4 = 3^3 - 4 = 27 - 4 = 23$$

$$12 = 4 + 4 + \sqrt{4} + \sqrt{4}$$

$$0 = 44 - 44$$

② Use the #4 exactly four times in each equation to get a total of all the <sup>whole</sup> #'s from 1 to 10.

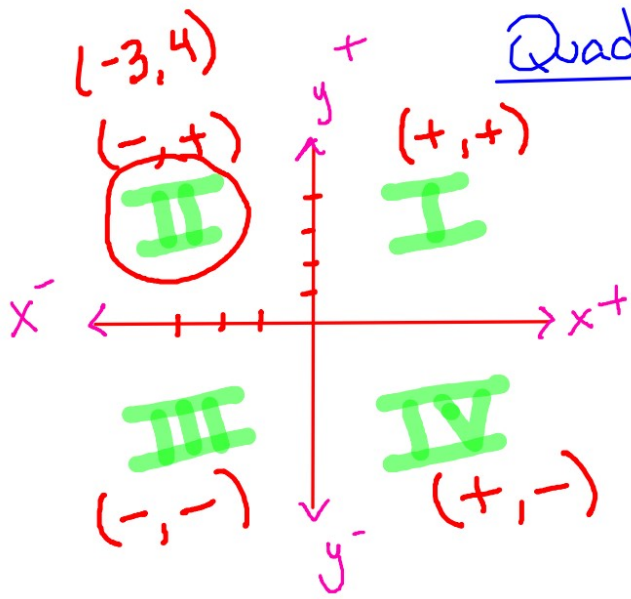
$$1 = \left(\frac{4}{4}\right)\left(\frac{4}{4}\right)$$

$$2 = \sqrt{4} + 4 - \sqrt{4} - \sqrt{4}$$

$$3 = \left(\frac{4}{4}\right) + \left(\frac{4}{\sqrt{4}}\right)$$

$$4 = 4 + 4 - \sqrt{4} - \sqrt{4}$$

## Quadrants



\* Find the inverse of a function from the equation:

① Change  $f(x)$  to "y"  
 $y = 2x - 8$

② Switch "x" and "y"

③ Solve for "y" (Get "y" by itself)  
 $x + 8 = 2y$

$$\frac{x + 8}{2} = \frac{2y}{2}$$

\*  $y = \frac{x + 8}{2}$   
④ Replace "y" with  $f^{-1}(x)$

\* Ex.  $f(x) = 2x - 8$   
 $f^{-1}(x) = \frac{x + 8}{2}$

