

Thursday 11/16

solve the following x^2 quadratic inequality algebraically
then check your answer by graphing

$x^2 - 16 \geq 0$ *above the x-axis.*

$(x+4)(x-4) \geq 0$
 $(0+4)(0-4) \ominus$

$a^2 - b^2 = (a-b)(a+b)$
difference of squares.

testing

sign chart: $\leftarrow \begin{array}{c} + \\ -4 \end{array} \quad \begin{array}{c} - \\ -4 \end{array} \quad \begin{array}{c} + \\ 4 \end{array} \rightarrow$

Solution: $(-\infty, -4] \cup [4, \infty)$

