4.3 Solving Polynomial Inequalities (Day 1)



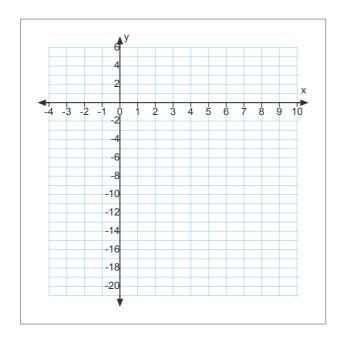
Math Learning Target:

"By the end of next class, I can solve any polynomial inequality."

A polynomial inequality is an inequality that contains polynomial expressions.

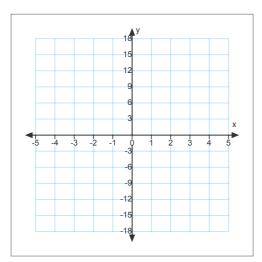
Ex. 1: Solve $x^2 - 5x - 14 \ge 0$

Interval		
Sign of $f(x)$		



$$y = x^2 - 5x - 14$$

Interval		
Sign of $f(x)$		



$$y = x^4 + 3x^3 - 3x^2 - 11x - 6$$

Entertainment: Use a chart to organize your solution instead of a "number line strategy". pp. 225-228 #1ab, 2, 5, 6*, 7abc, Challenge #17

Error in answer for 6e. The answer should be: $x \le \frac{-3}{2}$ or $x \ge 3$