

- Now graph this system of inequalities: $y < \frac{3}{x}$ and $y > (x - 4)^2 - 7$. Challenge the class to find points in the solution set by examining the graph on the calculator.
- As a final summary have students enter the following sequence of keystrokes: [Y=], [MATH], [NUM], [abs (], [ENTER], [X,T,θ,n], [)], [◀], [◀], [◀], [◀], [◀], [ENTER], [ENTER], [ENTER], [GRAPH]. Challenge the class to name what was just graphed.
- Final Challenge: How would you graph $x = 3$, $x \geq 3$ and $x \leq 3$?

Insure that you are using a friendly window. To do this, press: [ZOOM] [4] [ENTER].

1. To graph $x = 3$ in GRAPH mode, press: [2nd], [PRGM], [[4], [▶]](successively to desired location), [ENTER].
2. To graph $x = 3$ on the screen, press: [CLEAR], [2nd], [PRGM], [[4], [3], [ENTER].

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