



Single Variable answer can be displayed on a number line Method 2 A) find boundary points B) TOST a point or two Solve directly (if possible)

Solve the inequality using either method or solve using both methods if you want the practice).  $\frac{1}{2x} \xrightarrow{7} \frac{1}{2} - \frac{2}{5x}$  $\frac{1}{2x} \quad \stackrel{>}{\xrightarrow{}} \quad \frac{1}{2} = \frac{2}{5x}$ Direct (if possible) **Boundary Point Method** 



Direct (if possible)	
$\frac{1}{2X} \xrightarrow{2} \frac{1}{2} - \frac{2}{5X}$	



Boundary Point G 2×+5 > 6×+2+



(4) Solve  $(\chi - 4)^3 + 6 \leq \chi - 4$ is so complex we won't be able to use either method. So we'll have to be happy with an approximate answer. Strategy: Break the L and R side into a system and analyze the graph.







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Review Ch. 4	Test on Ch. 4 Turn in <u>Ch</u> 4 HW	No School Thanksgiving	
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$$70 \quad \chi^{2} + |2\chi + 15 = 75 \quad \text{Solve by} \\ \chi^{2} + |2\chi + 36 = 60 + 36 \quad \text{square} \\ \chi^{2} + |2\chi + 36 = 96 \quad \text{square} \\ (x + 6)^{2} = 96 \quad \text{square} \\ \chi + 6 = \pm 196 \quad \text{square} \\ \chi =$$









(67 a) 
$$5 - (y-3) = 3x$$
  
 $-5 - 5$   
 $-(y-3) = 3x - 5$   
 $-y+3 = 3x - 5$   
 $-y = 3x - 8$   
multiply all terms by (1)  
 $y = -3x + 8$ 



$$\begin{array}{l} \underline{68A} & (y-3)^2 = 2y-10 \\ (y-3)(y-3) = 2y-10 \\ y^2-3y-3y+9 = 2y-10 \\ y^2-6y+9 = 2y-10 \\ y^2-6y+19 = 0 \\ y^2-8y+19 = 0$$

$$\chi = \frac{-() \pm \sqrt{()^2 - 4()}}{2()}$$

$$\frac{(m-1)}{(m+4)(m-4)} = \frac{m^2 - 6m + 8}{2m^2 - 7m + 6}$$

$$\frac{(m-3)}{(m-2)(m-4)} = \frac{(m-2)(m-4)}{(m-2)(2m-3)}$$

65 c 
$$3x + 2 \ge x - 6$$
  
Bound Pts  
 $3x + 2 = x - 6$   
 $2x + 2 = -5$   
 $3x = -8$   
 $x = -4$   
 $x = -8$   
 $x = -4$   
 $x = -4$ 

(5) 
$$2x^{2} - 5x < 12$$
  
 $2x^{2} - 5x = 12$   
 $2x^{2} - 5x - 12 = 0$   
 $(2x+3)(x-4) = 0$   
 $1$   
 $2x - 3 = 4$   
 $x - 3 = 2$   
 $x - 3 = 4$ 







In that case is (-3, 0) a solution?  
to....  

$$y \ge 2x^2 + 5x - 3$$
  
 $0 \ge 2(-3)^2 + 5(-3) - 3$   
 $0 \ge 18 - 15 - 3$   
 $0 \ge 0$   
 $18 - 15 - 3$ 





Since 
$$y \ge 2x^{2} + 5x - 3$$
  
 $y = 2x^{2} + 5x - 3$   
 $0 \ge 2x^{2} + 5x^{2} - 3$   
 $0 \ge 2x^{2} + 5x^{2} - 3$   
 $0 \ge -3$   
 $y = 0$ 















