


Classpad Help Series sponsored by Casio Education Australia		www.casioed.net.au	
203	Solving Linear Inequalities	Author	Monty Campbell
		Date	1 Jan 2008
		CPM OS	03.01.3000.0240

### Solving a Linear Inequality


Solve the linear inequality  $3 - 4x > 9$  (Interactive step by step method)

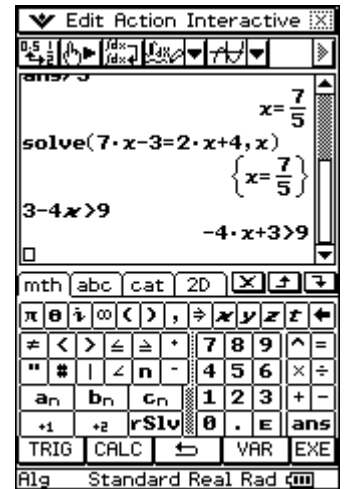
Tap the Main screen icon  Main

Press **Keyboard**.

Enter  $3 - 4x > 9$

Press or tap **EXE**.

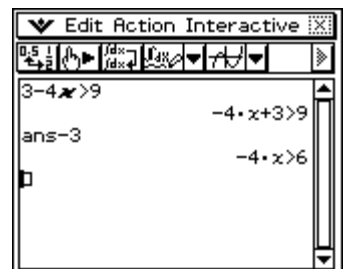
**NOTE:** the **greater than** symbol  $>$  can be found in  **OPTN**



Now we can subtract 3 from both sides.

Enter  $-3$

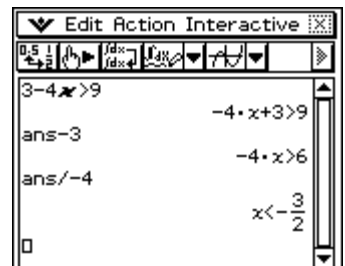
Then press or tap **EXE**




We could then consider dividing both sides by -4.

Enter  $\div (-) 4$

This yields the correct solution  $x < -\frac{3}{2}$  !!



Solve the linear inequality  $3 - 4x > 9$  (Using the Solve command)

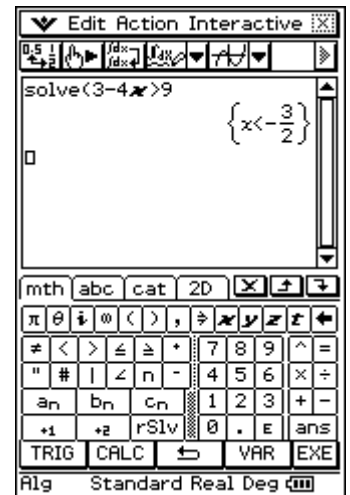
Tap the Main screen icon  Main

Press **Keyboard**.

Either

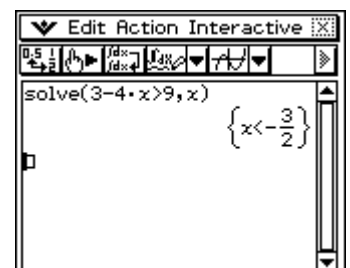
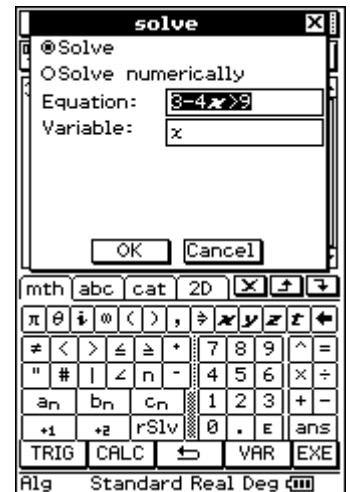
Tap **Action, Equation/Inequality, solve**  
 Enter  $3 - 4x > 9$   
 Press or tap **EXE**

**NOTE:**  $x$  is the default variable



or

Enter  $3 - 4x > 9$   
 Select the entire inequality  
 Tap **Interactive, Equation/Inequality, solve**  
 Tap **OK**



As a variation, if we enter  $x + 2 > x$  we obtain ANY real solution.

If we enter  $x + 2 > x + 3$  we obtain NO real solution.

