Thursday, April 14, 2011 8:32 AM



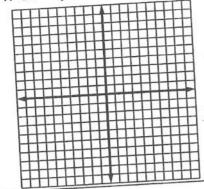
Graphing Inequalitie...

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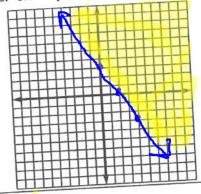
## **Graphing Linear Inequalities**

Graph the solution set.

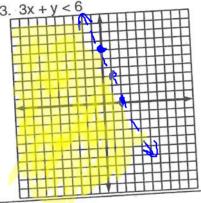
1. 
$$5x - 4y > 10$$



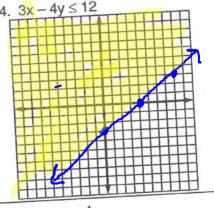
2. 
$$3x + 2y \ge 6$$



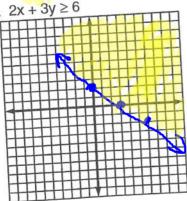
3. 3x + y < 6



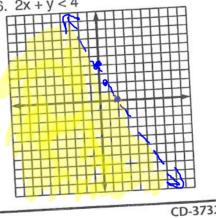
4.  $3x - 4y \le 12$ 



5.  $2x + 3y \ge 6$ 



6. 2x + y < 4



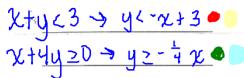
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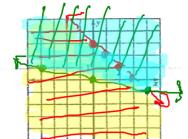


Graphing Inequalitie...

## Systems of Linear Inequalities

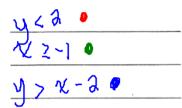
 $\bullet \quad \textbf{Example 1} \sim \textit{Solve by graphing}.$ 

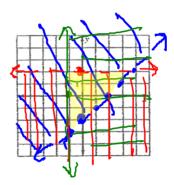




\* The graph of the system is the overlap, or <u>intersection</u>, of the two half-planes.

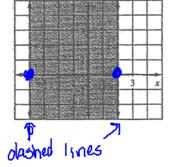
• Example 2 ~ Solve by graphing.





• Example 3 ~ Write a system of inequalities that defines the shaded region below.

2>-4	
2<2	,





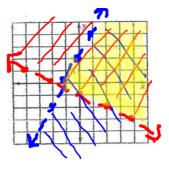
Graphing Inequalitie...

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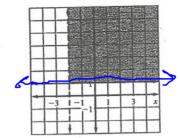
## TrY tHeSe.....

• Graph the system of linear inequalities.

$$y < 2x + 2$$
  $m = 2$   $b = 2$ 



• Write a system of linear inequalities that defines the shaded region.



• Solve by graphing.

