Graph each linear inequality. Then determine which of the given ordered pairs is a solution. Check all that apply. ★ Remember, solutions lie in the shaded region (on a solid line touching the shaded region is okay, on a dashed line touching the shaded region is not okay) ★

	solid line	dashed line		
shade above	≥	>		
shade below	\leq	<		



shade above

shade below

Steps:

1) Graph and shade the first inequality

2) Graph and shade the second inequality

3) Find solutions

★ Remember, solutions lie in the double shaded region (on a solid line touching the double shaded region is okay, on a dashed line touching the double shaded region is not okay) ★

Example 1: Graph the following system of inequalities.

$$y > 2x - 2$$
$$y \le -\frac{1}{4}x + 3$$

For the list of ordered pairs below, check off each ordered pair that is a solution to the system of equations.

$\Box (8,3) \qquad \Box (4,-2) \qquad \Box (-,2-4)$	□ (8,3)	□ (4, −2)	□ (−,2−4)
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 $\Box (-4,4) \qquad \Box (4,2) \qquad \Box (1,6)$

7. 6 5 4 3 2 1 -9 -8 -7 -6 -5 -4 -3 -2 2 3 4 5 6 -1, -2-3 4 5 6 7 -8-

solid line

 \geq

 \leq

9 y 8 y

Example 2: Graph the following system of inequalities.

у	<	3 <i>x</i>	—	4
y	\leq	3 <i>x</i>	+	2

For the list of ordered pairs below, check off each ordered pair that is a solution to the system of equations.

□ (0,2)	□ (0, −4)	□ (4, −2)

$\Box (-1,-2) \Box (-2,1) \Box (-2,1)$	-,2 – 4)
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 $\Box (2,1) \qquad \Box (8,0) \qquad \Box (0,8)$



dashed line

>

<

Graph each system of inequalities.

1) x + y > 52x - 4y > 4 $\begin{array}{ll} 2) & y \geq x+2 \\ & x \leq -2 \end{array}$



Graphing Systems of Inequalities Practice

1) y > 4x - 3

$$y \ge -2x + 3$$



3)
$$y < 3$$

 $y \leq -x + 1$















$$4x - 3y < 9$$

x + 3y > 6



Graph each pair of inequalities below and indicate the solution set of the system with shading. The shading, if extended, would cover a set of three letters. Print these letters in the three boxes at the bottom of the page that contain the exercise number.



4	4	4	3	3	3	6	6	6	1	1	1	5	5	5	2	2	2