

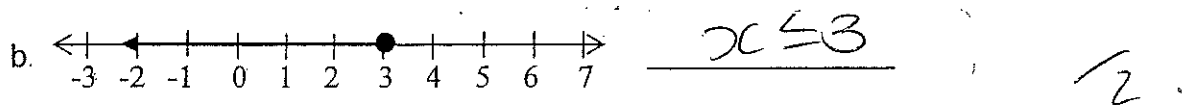
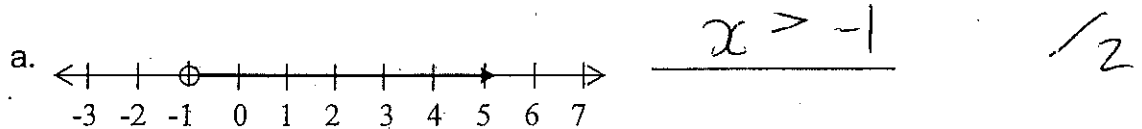
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## APPLIED MATH 11

### CHAPTER 4 TEST - SYSTEMS OF LINEAR INEQUALITIES

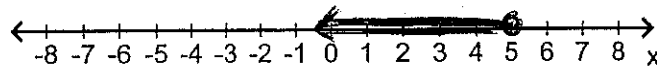
NAME: Key

1. Write an inequality that is represented by each graph:

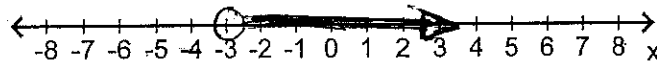


2. Graph each inequality:

a.  $x \leq 5$



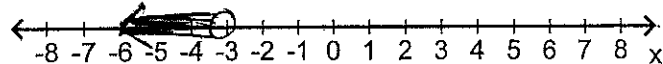
b.  $x > -3$



c.  $2x + 11 < 5$

$2x < -6$

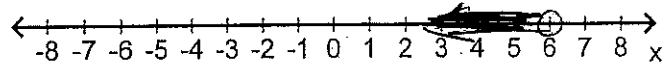
$x < -3$



d.  $2x + 5 > 3x - 1$

$-x > -6$

$x < 6$



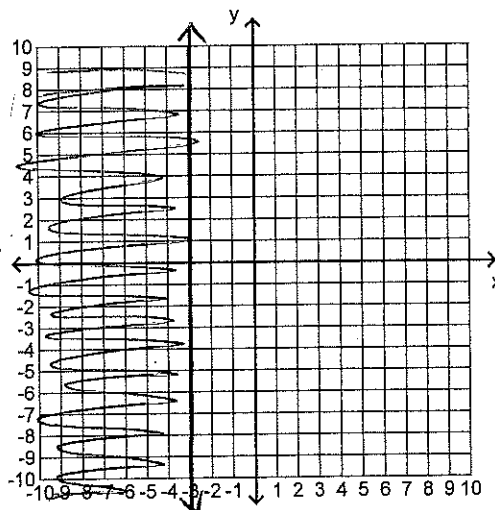
OR

$6 > x$

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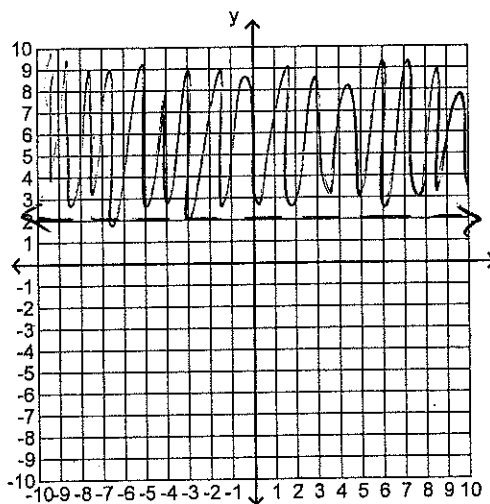
3. Graph (and shade) each inequality on a coordinate grid.

a.  $x \leq -3$



1/2

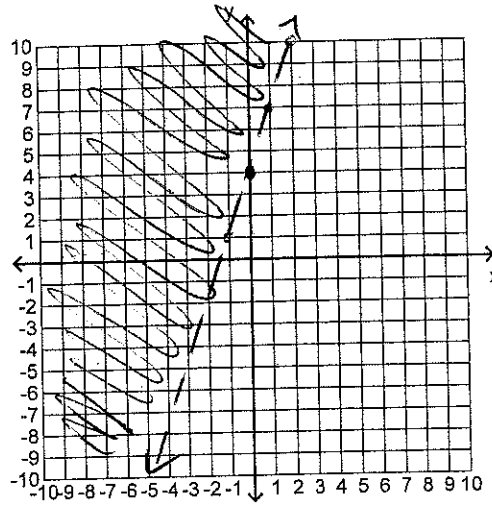
b.  $y > 2$



1/2

1/4

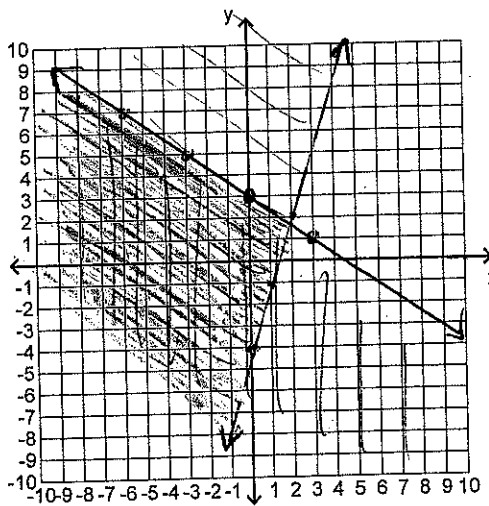
c.  $y > 3x + 4$



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4. Solve each system of inequalities by graphing and shading.

a.  $y \leq -\frac{2}{3}x + 3$   
 $y > 3x - 4$



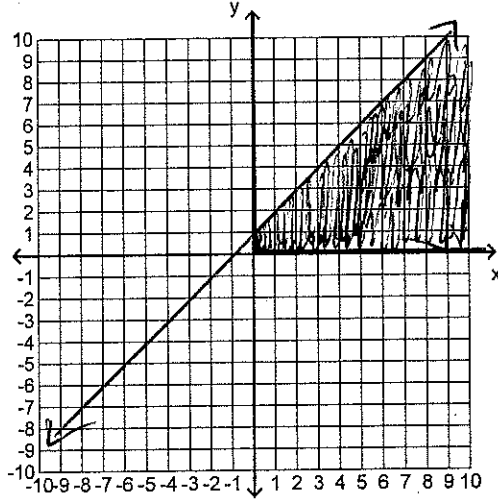
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$$x \geq 0$$

b.  $y \geq 0$   
 $y \leq x+1$

1-Quadrant  
 1-line  
 1 shading

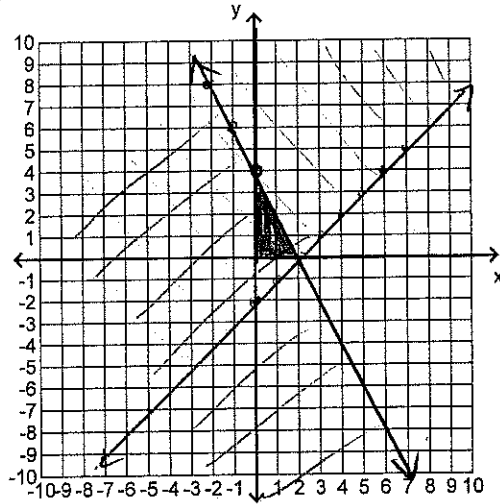


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c.  $y + 2x \leq 4$   
 $y \geq x - 2$   
 $x \geq 0$   
 $y \geq 0$

$$y \leq -2x + 4$$

line  
 line  
 shade  
 shade  
 answer



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