

Assignment Due: \_\_\_\_\_

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## Inequalities

Name \_\_\_\_\_ Section/Period \_\_\_\_\_

Assigned: \_\_\_\_\_

Solve the following. Graph each on a separate number line with the proper notation.

1.  $2x+4\leq 6$

2.  $3x-4>2x+1$

3.  $2x\geq 3x+1$

Inequalities

4.  $5x+3 < 2x-7$

5.  $4x-5 > 2x-7$

6.  $3x+7 > -5x+4$

7.  $-5x-4 \geq -3-2x$

Inequalities

Graph the following on a coordinate plane.

8.  $3x+2y>6$

9.  $y<4x+2$

10.  $y-2\leq 0.5(x-3)$

Inequalities

11.  $4x - 2y \geq 3$

12.  $-x \leq y$

Solve the following systems of inequalities by graphing.

13.  $y < 2x + 3$   
 $y > 5x - 3$

Inequalities

14.  $y < 0.5x - 2$   
 $y > 0.5x + 5$

15.  $y \geq (1/3)x - 3$   
 $y < (4/5)x - 2$

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Inequalities

Solve (and graph) each of the following.

16.  $f(x) \geq 3x^2 + 2x - 5$

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Inequalities

17.  $f(x) < x^2 + 5x + 6$