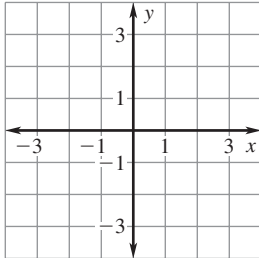


# Quiz 4

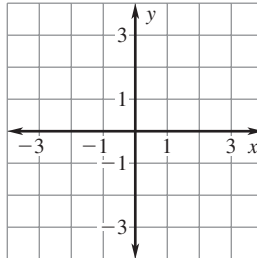
For use after Lessons 7.8–7.9

### Graph the inequality.

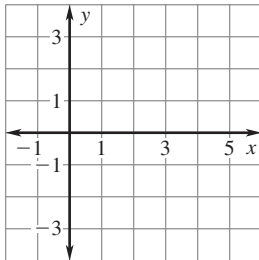
1.  $y > 3x - 2$



2.  $4x + y \leq 0$



3.  $x \geq 3$



### Answers

1. \_\_\_\_\_ See left.

2. \_\_\_\_\_ See left.

3. \_\_\_\_\_ See left.

4. \_\_\_\_\_ See left.

5. \_\_\_\_\_ See left.

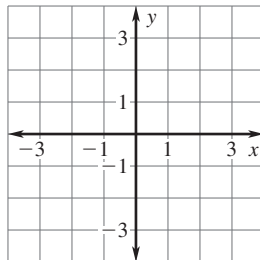
6. \_\_\_\_\_ See left.

7. \_\_\_\_\_ See left.

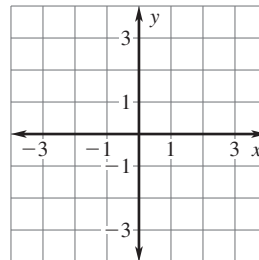
8. \_\_\_\_\_

### Graph the system of inequalities.

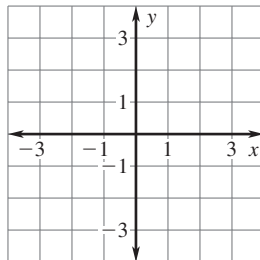
4.  $x > 2$   
 $y < 3$



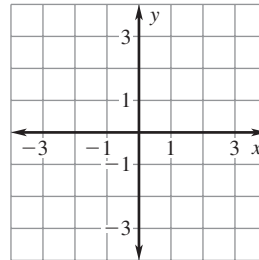
5.  $y \leq x + 2$   
 $y \geq 1$



6.  $x \geq 0$   
 $y > 3x$



7.  $y \leq -x$   
 $y > 1$   
 $x < -1$



8. At the gym, you want to spend at least 30 minutes running and no more than 15 minutes training with weights. You do not want your time at the gym to exceed 55 minutes. Let  $x$  be the time spent running and  $y$  be the time spent weight-training. Write a system of inequalities that models the situation.