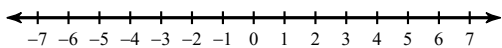
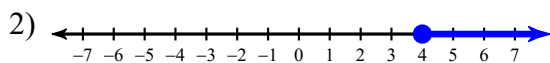


Chapter 3 Test

Date _____ Period _____

Draw a graph for the inequality.

1) $x < 0$

**Write an inequality for the graph.**

3) What is the graph of $(1, 7]$?



4) How do you write $(-\infty, 0]$ or $(6, \infty)$ as an inequality?

Solve each equation for the indicated variable.

5) $g + ca = ba$, for a

6) $a - k = w - v + ba$, for a

7) Kristi scored 79 and 86 on her first two quizzes. Write and solve a compound inequality to find the possible values for the third quiz score that would give Kristi a B average (80 - 89) inclusive.

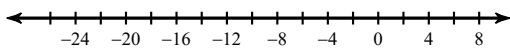
8) Hillary is altering her new jacket to enter it into the Bodacious Bedazzling Contest. In order for a garment to be considered "bedazzled," it must contain an amount of gems that fall within the range of 166 and 216 gems. Hillary works at a rate of 25 gems an hour. Hillary's mom helped her put on 16 gems. What is the range of hours it will take Hillary to "bedazzle" her jacket?

Solve the inequality and write the answer in set builder notation.

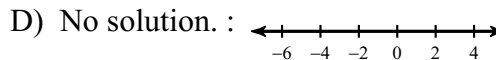
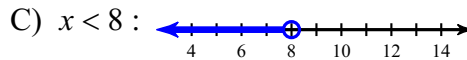
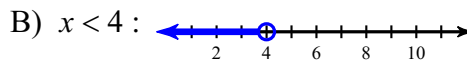
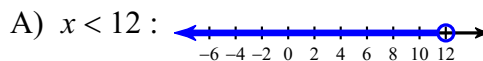
9) $20 \geq 5(8 + v)$

Solve each inequality and graph its solution or choose the best answer for the multiple choice problems.

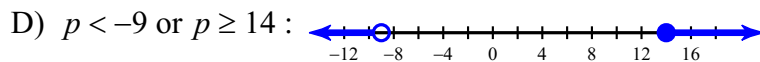
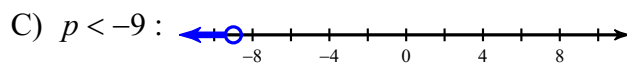
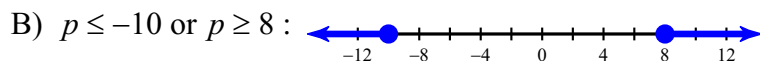
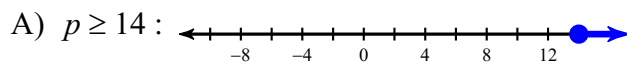
10) $|r + 10| - 2 \geq 12$



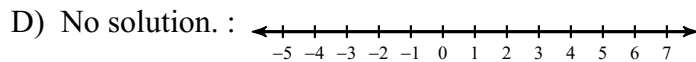
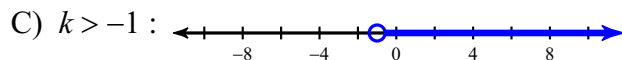
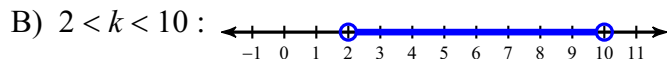
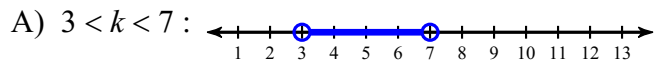
11) $6(2x + 9) < 54 + 12x$



12) $8p < -72$ or $\frac{p}{7} \geq 2$



13) $-5 < -11 + 2k < 3$

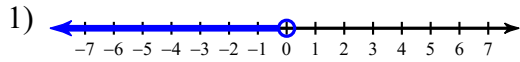


Solve each equation.

14) $2|-5p| = -10$

15) $5 + 3|-m + 2| = 41$

Answers to Chapter 3 Test (ID: 1)



2) $x \geq 4$

3)

4)

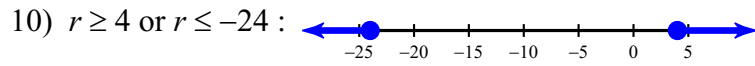
5) $a = \frac{g}{-c + b}$

6) $a = \frac{k + w - v}{-b + 1}$

7)

8)

9) $v \leq -4$



11) D

12) D

13) A

14) No solution.

15) $\{-10, 14\}$