Lesson 3.6, pg 204 #9-11,13,16-18,27-30 graphs only, 35-37, 53, 54

Write a compound inequality that represents each phrase. Graph the solutions.

9. all real numbers that are between -5 and 7

10. The circumference of a women's basketball must be between 28.5 in. and 29 in., inclusive.

Solve each compound inequality. Graph your solutions. See Probl

11. $-4 < k + 3 < 8$

13. $3 < 4p - 5 \leq 15$

16. $-3 \leq \frac{6 - q}{9} \leq 3$

Solve each compound inequality. Graph your solutions.

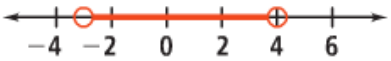
17. $6b - 1 < -7$ or $2b + 1 > 5$

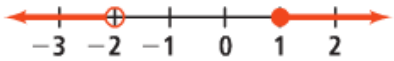
18. $5 + m > 4$ or $7m < -35$

Write each inequality in interval notation. Then graph the interval.

27. $x > -2$ **28.** $x \leq 0$ **29.** $x < -2$ or $x \geq 1$ **30.** $-3 \leq x < 4$

Write a compound inequality that each graph could represent.

35. 

36. 

37. 

53. A taxi traveled 5 mi to John's home and then drove him to the airport 10 mi away. Which inequality represents the possible distances d of the taxi from the airport when it started traveling toward John's home?

(A) $5 \leq d \leq 10$ (B) $5 \leq d \leq 15$ (C) $0 \leq d \leq 5$ (D) $0 \leq d \leq 10$

54. A student must earn at least 24 credits in high school in order to graduate. Which inequality or graph does NOT describe this situation?

(F) $c \leq 24$

(G) $c \geq 24$

(H) $24 \leq c$

(I)