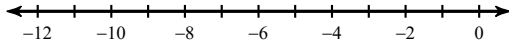


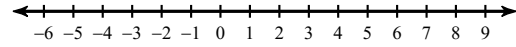
Unit 1.9 Examples of Solving Compound Inequalities

Solve each compound inequality and graph its solution. Give the interval notation.

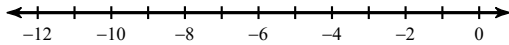
1) $\frac{k}{7} < -1$ or $k - 1 \geq -6$



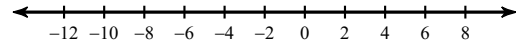
2) $n - 7 \leq -9$ or $\frac{n}{2} > 2$



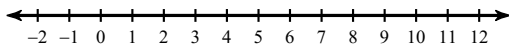
3) $2r + 9 > -3$ or $-r + 8 > 15$



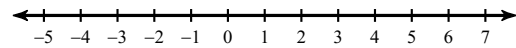
4) $6x - 7 \leq -55$ or $4x + 8 \geq 24$



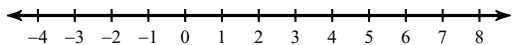
5) $-2 + 4x \leq -7x + 9$ or $2x + 10 \leq 4x - 4$



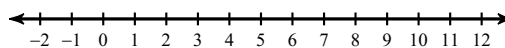
6) $4n - 7 \geq -3n - 7$ or $-4n + 8 \geq 9 - 3n$



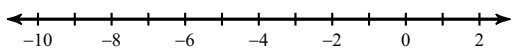
7) $\frac{x}{3} \geq 0$ and $7 + x < 14$



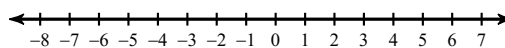
8) $8 < k + 8 \leq 18$



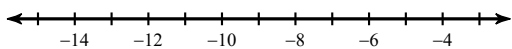
9) $-1 < a + 4 \leq 5$



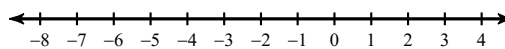
10) $9b - 7 > -52$ and $6 - 3b \geq -9$



11) $5p - 8 < 6p + 6 < -10 + 4p$



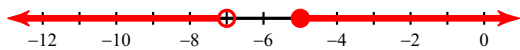
12) $5a + 6 > -4 + 3a$ and $7a - 8 < 1 - 2a$



Unit 1.9 Examples of Solving Compound Inequalities

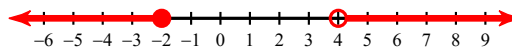
Solve each compound inequality and graph its solution. Give the interval notation.

1) $\frac{k}{7} < -1$ or $k - 1 \geq -6$



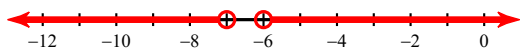
$k < -7$ or $k \geq -5$

2) $n - 7 \leq -9$ or $\frac{n}{2} > 2$



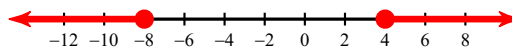
$n \leq -2$ or $n > 4$

3) $2r + 9 > -3$ or $-r + 8 > 15$



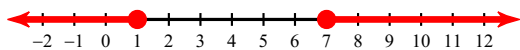
$r > -6$ or $r < -5$

4) $6x - 7 \leq -55$ or $4x + 8 \geq 24$



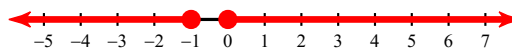
$x \leq -8$ or $x \geq 4$

5) $-2 + 4x \leq -7x + 9$ or $2x + 10 \leq 4x - 4$



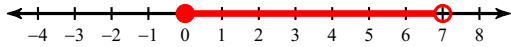
$x \leq 1$ or $x \geq 7$

6) $4n - 7 \geq -3n - 7$ or $-4n + 8 \geq 9 - 3n$



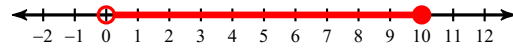
$n \geq 0$ or $n \leq -1$

7) $\frac{x}{3} \geq 0$ and $7 + x < 14$



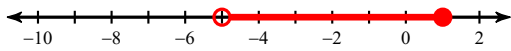
$0 \leq x < 7$

8) $8 < k + 8 \leq 18$



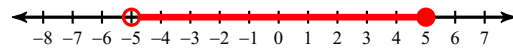
$0 < k \leq 10$

9) $-1 < a + 4 \leq 5$



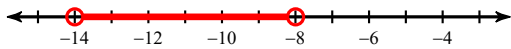
$-5 < a \leq 1$

10) $9b - 7 > -52$ and $6 - 3b \geq -9$



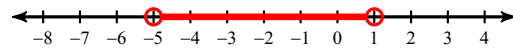
$-5 < b \leq 5$

11) $5p - 8 < 6p + 6 < -10 + 4p$



$-14 < p < -8$

12) $5a + 6 > -4 + 3a$ and $7a - 8 < 1 - 2a$



$-5 < a < 1$