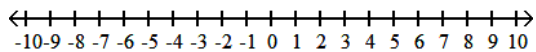
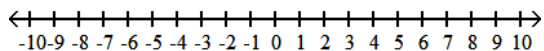


Solve the polynomial inequality and graph the solution set on a number line. Express the solution set in interval notation.

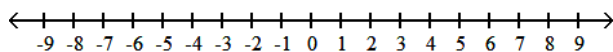
1) $(x - 4)(x + 7) > 0$



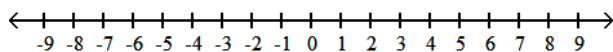
2) $(x + 2)(x - 2) \leq 0$



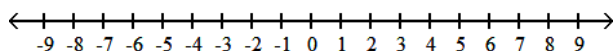
3) $x^2 - 3x - 28 < 0$



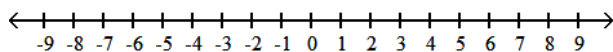
4) $x^2 + 8x + 15 \geq 0$



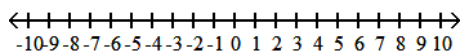
5) $x^2 + 7x \leq -12$



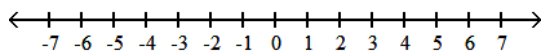
6) $x^2 - 2x \geq 8$



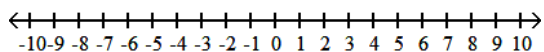
7) $2x^2 + 5x - 12 \leq 0$



8) $(3x - 5)(x + 1) \leq 0$



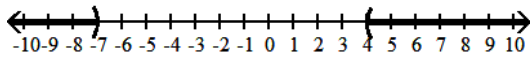
9) $(x + 4)(x + 3)(x - 7) > 0$



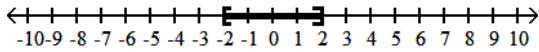
Answer Key

Testname: PRACTICE12

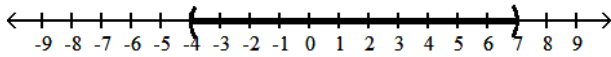
1) $(-\infty, -7) \cup (4, \infty)$



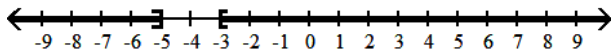
2) $[-2, 2]$



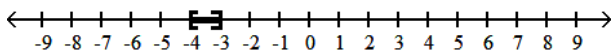
3) $(-4, 7)$



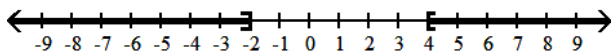
4) $(-\infty, -5] \cup [-3, \infty)$



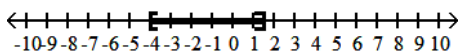
5) $[-4, -3]$



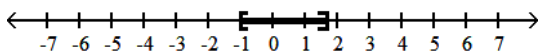
6) $(-\infty, -2] \cup [4, \infty)$



7) $\left[-4, \frac{3}{2}\right]$



8) $\left[-1, \frac{5}{3}\right]$



9) $(-4, -3) \cup (7, \infty)$

