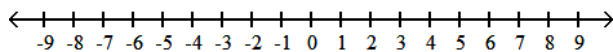
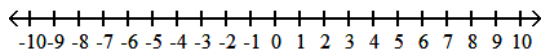


Solve the polynomial inequality and graph the solution set on a number line. Express the solution set in interval notation.

$$1) x^2 + 12x + 35 > 0$$

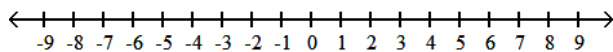


$$2) (x + 4)(x + 3)(x - 7) > 0$$

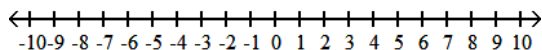


Solve the rational inequality and graph the solution set on a real number line. Express the solution set in interval notation.

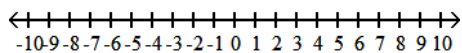
$$3) \frac{x - 3}{x + 9} < 0$$



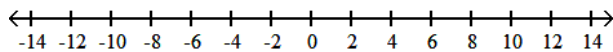
$$4) \frac{x - 2}{x + 4} > 0$$



$$5) \frac{4x + 5}{12 - 4x} \geq 0$$



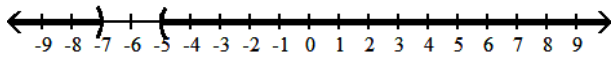
$$6) \frac{(x + 5)(x - 2)}{x - 1} \geq 0$$



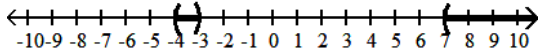
Answer Key

Testname: PRACTICE06

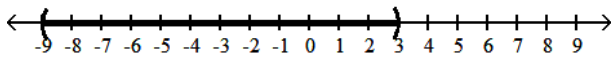
1)  $(-\infty, -7) \cup (-5, \infty)$



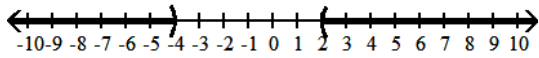
2)  $(-4, -3) \cup (7, \infty)$



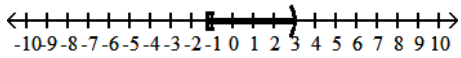
3)  $(-9, 3)$



4)  $(-\infty, -4) \cup (2, \infty)$



5)  $\left[-\frac{5}{4}, 3\right)$



6)  $[-5, 1) \cup [2, \infty)$

