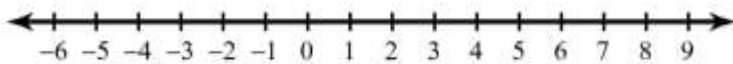ALG A: Solving a linear system; compound inequalities; absolute value equations

1. Find the unique (x, y) solution to the linear system $\begin{cases} 2x - 6y = 16 \\ -3x + 2y = -17 \end{cases}$

2. Find and graph the solution set: $-26 \leq 9x + 10 \leq 64$

3. Find all values of x such that $|4 - 8x| = 84$

ALG B: Solving a quadratic equation by factoring; by completing the square; roots

4. Find all values of x such that $5x^2 + 3x = 8$

5. Find all values of x such that $x^2 - 10x - 22 = 0$

6. Use a graphing calculator to find the roots/zeroes of
$f(x) = 12x^3 - 118x^2 + 318x - 252$