Math 32 Quiz

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Name: _____ Score: _____ /10

You have twenty minutes to complete this quiz. You may not use calculators or notes, but the chalkboards are yours.

1. (3 pts) Solve the equation for x:

$$\sqrt{3x - 8} - \sqrt{2x + 3} + \sqrt{x + 1} = 0$$

2. (3 pts) Solve the inequality:

$$\left| \frac{x+1}{2} - \frac{x-2}{3} \right| < 1$$

3. (4 pts) Solve the compound inequality as two separate inequalities:

$$x - 5 \leq 3x + 1 \leq 17 - x$$