Math 181 Honors Quiz 1 Version A (practice quiz)

1. Solve $2x^2 + 3x - 5 = 0$.

2. Convert the fraction $\frac{3}{7}$ to a repeating decimal.

3. Convert the repeating decimal $1.\overline{37}$ to a fraction.

4. Find a solution to the system $\begin{cases} x + y = 2 \\ 2x - y = 5. \end{cases}$

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**5.** Solve the inequality $x^2 - x > 6$.

**6.** Rewrite the expression $\left| \dfrac{1}{1+x^2} - 15 \right|$ without absolute values.

**7.** Evaluate the sum $\displaystyle\sum_{k=1}^{5} \dfrac{k}{2}$.

**8.** Find a formula for the sum $\displaystyle\sum_{k=5}^{n} \dfrac{1}{2^k}$.