MATD 0370 – Elementary Algebra   **Name_____**
Written Homework #1 - Show all work to receive credit

Expression or Equation (Section 1.1)

Classify each of the following as an expression or equation.

1) a) $10x - 5$ b) $56 = 4(y + 3)$ c) $s(w - 8) + 7$

Translating to Algebraic Expressions and Equations (Section 1.1)

Translate each phrase to an algebraic expression or equation

2) Four less than ten times a number _____

3) Twice the sum of two numbers is 48 _____

Operations with Fractions (Sections 1.3, 1.5, 1.6, 1.7)

4) Subtract and simplify. Show your work. $\dfrac{5}{6} - \dfrac{4}{15}$

5) Add and simplify. Show your work. $-\dfrac{2}{5} + \dfrac{1}{3}$

6) What number is its own reciprocal? _____

7) Division by what number is undefined? _____

8) Divide and simplify. Show your work. $\dfrac{12}{25} \div \left(-\dfrac{32}{60} \right)$

Operations with Real Numbers (Sections 1.5, 1.6, 1.7)

9) Simplify. Show your work. $16 - (-12) - 1 - (-2) + 3$