

Math 002 P1**Name:****Quiz # 6**

October 21, 2014 No electronic devices or interpersonal communication allowed. Show work to get credit.

(1) Find all solutions of the equation $3(2x + 1) - 4(3x - 1) = x - 7$.

(2) Find all solutions of the equation $\frac{1}{2}x - \frac{3}{5} = \frac{1}{2}(x - 3)$.

(3) Write an expression that represents the value, in dollars, of q quarters.

(4) Write a system of equations that represents the following situation. (You needn't solve the system, but you should be able to.) A total of \$1700 is divided between two investments, one paying 4% interest and the other paying 6% interest. After one interest period, the total interest earned was \$90. How much was invested in each account?