## Math 002 P1

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. 6x+3 -12x+4=x-7 -6x+7=x-7 3 = x-7 3 = x-7
- (2) Find all solutions of the equation  $\frac{1}{2}x \frac{3}{5} = \frac{1}{2}(x-3)$ . L < D = 10 5x 6 = 5x 15 -6 = -15 -6 = -15 contradiction!

No solution

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

0.25 q or 49

(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?

amount invested in X = 4% interest account

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