Name: _____ Date:

Course: _____ Nyack College

College MATH

QUIZ #4

Directions: Provide complete responses to each question. Make sure to show your work.

1. Solve each equation:

   a. $7x + 8 = 1$

   b. $7x - 5x + 15 = x + 8$

c. $2x + 3(x - 4) = 2(x - 3)$

d. $-3x + 6 - 5(x - 1) = -(2x - 4) - 5x + 5$

e. $\frac{3x+7}{6} + \frac{x+7}{6} = \frac{x+6}{4}$

f. $0.05x + 0.12(x + 5000) = 940$

g. $0.5x + 0.25(x + 1000) = 800$

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2. Solve each equation by either one of the following methods:

a. $(x+3)(x-9)=0$ $(use\ the\ zero\ factor\ property\ method)$

b. $12x^2+4x=1$ $(use\ the\ zero\ factor\ property\ method)$

c. $x^2 = 64$ $(use\ the\ square\ root\ property\ method)$

d. $(x-4)^2 = 9$ $(use\ the\ square\ root\ property\ method)$

e. $2x^2 = 2x + 1$ $(use\ the\ quadratic\ formula)$

f. $x^2 + 3x - 7 = 0$ $(use\ the\ quadratic\ formula)$

g. $x^2 + 5x - 6 = 0$ $(use\ any\ method)$

h. $x^2 - 7x + 12 = 0$ $(use\ any\ method)$