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

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

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

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

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

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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*)

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

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

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

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

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

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

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