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Nyack College

College MATH

QUIZ #4.1

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

1. Solve each equation:

a. $5x - 9 = 1$

b. $10x - 5x - 12 = x + 28$

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

d. $-6x + 12 - 10(x - 1) = -(4x - 8) - 10x + 10$

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e. $\frac{3x+7}{12} + \frac{x+7}{12} = \frac{x+6}{4}$

f. $0.15x + 0.1(x + 5000) = 950$

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g. $0.15x + 0.45(x + 1000) = 900$

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

a. $(x + 7)(x + 9) = 0$ (*use the zero factor property method*)

b. $2x^2 - x = 1$ (*use the zero factor property method*)

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c. $x^2 = 49$ (*use the square root property method*)

d. $(x - 4)^2 = 121$ (*use the square root property method*)

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e. $2x^2 = 2x + 4$ (*use the quadratic formula*)

f. $x^2 + 12x - 28 = 0$ (*use the quadratic formula*)

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g. $3x^2 - 11x + 6 = 0$ (*use any method*)

h. $x^2 - 22x + 121 = 0$ (*use any method*)