

Name: _____

Date:

Course: _____

Nyack College

College Algebra

Preliminary Assessment #1

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

1. Simplify the following expressions:

a. $(x^2 - 4x - 21) + (2x^2 + 12x + 20)$

b. $(x^2 - 4x - 21) - (2x^2 + 12x + 20)$

c. $(4x^2 - 14x - 210) - (12x^2 + 362x + 202)$

2. Multiply the following expressions:

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a. $x(x+8x)$

b. $x^2(x^3-x^2-8x)$

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

d. $(x^2-2x-1)(x^2+5x+6)$

3. Find the quotient and remainder:

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a. $3x^3 - x^2 + x - 2$ divided by $x + 2$

b. $3x^3 - x^2 + x - 2$ divided by x^2

c. $5x^4 - x^2 + x - 2$ divided by $x^2 + 2$

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d. $3x^5 - x^2 + x - 2$ divided by $3x^3 - 1$