Arellano University - Malabon **School of Computer Science** CS 314

Name: Sotto, Joshua P.

Day & Time : FRIDAY, 9:00 - 12:00

Date: Nov. 4, 2022

- Perform the indicated operations. In MS Word, show your complete N N solution below the expression and submit to LMS on Saturday, Nov. 5 until 8:00pm.
- Subtract 2x 9 from 5x + 6 $x^2 8x + 16$ $3x^2 11x 4$ $= \frac{2x-9(3x+1)-5x-6(x-4)}{(3x+1)(x-4)^2} = \frac{x^2-11x+15}{3x+1(x-4)^2}$ $= \frac{6x^2-25x-9-5x^2+14x+24}{3x+1(x-4)^2}$ $= \frac{3x+1(x-4)^2}{2x+1(x-4)^2}$

2.
$$\frac{3x-4}{x^2+5x+6}$$
 + $\frac{2x-6}{x^2+5x+6}$

$$= \frac{3x-4+2x-6}{x^2+5x+6}$$

$$= \frac{5x-(0)}{x^2+5x+6}$$

3.
$$\frac{3x}{3x+7}$$
 - $\frac{2}{x-2}$ + $\frac{19x+14}{3x^2+x-14}$ = $\frac{3x^2+7}{3x^2+x-14}$

 $\frac{3x}{3x+7} / (x-2)(3x+7) \left(\frac{2}{x-2} / (2x-2)(3x+7) \right) \frac{3x^2-6x-6x-1/4+19x+1/4}{(x-2)(3x^2-6x)}$ $3x(x-2) = \frac{3x^2-6x}{2} - \frac{2}{2}(3x+7) = \frac{3x^2+7x}{(x-2)(3x^2-6x)}$ $LCD: (x-2)(3x+7) - 6x-14 = \frac{3x^2+7x}{(x-2)(3x^2-6x)}$

$$3x(x-2) = 3x^2-6x - 2(3x+7)$$

 $LCD(x-2)(3x+7) - 6x-14$

$$= \frac{(\chi-2)(3x^2-6x)}{(\chi-2)(3x^2-6x)}$$