Page 1 of 2

Learning Outcomes Covered:

5F: I can subtract polynomials.

CONTENT Assessment Questions:

1. Use algebra tiles to model and find each difference. Sketch your tile model. Record your answer symbolically.



2. Subtract. a) (2x+3) - (5x+4)**b**) (4 - 8w) - (7w + 1)= >X+3-5X-4 =4-8W-7W-12-15W+3 = -3X-1 c) $(x^2 + 2x - 4) - (4x^2 + 2x - 2)$ **d**) $(-9z^2 - z - 2) - (3z^2 - z - 3)$ $= x^{2} + 2x + 4 - 4x - 2x + 2$ =-97-7-2-32+2+3 $=\chi^{2}-4\chi-2$ $= -122^{2} + 1$ e) $(2a+3b-3a^2+b^2) - (-a^2+8b^2+3a-b)$ ($xy-x-5y+4y^2) - (6y^2+9y-xy)$ $= 2a + 3b - 3a^{2} + b^{2} + a^{2} - b^{2} - 3a + b^{2} = xy - x - 5y + 4y^{2} - 6y^{2} - 9y + xy$ $=2XY-X-2Y^{2}-14Y$ $= -2a^{2} - a - 11b^{2} + 4b$

Math 9 Section 5.4 – Subtracting Polynomials

Page 2 of 2

Name: _____

CURRICULAR COMPETENCIES Questions:

- 1. A student subtracted $(3y^2 + 5y + 2) - (4y^2 + 3y + 2)$ like this: $= 3y^2 - 5y - 2 - 4y^2 - 3y - 2$ $= 3y^2 - 4y^2 - 5y - 3y - 2 - 2$ $= -y^2 - 8y - 4$ a) Explain why the student's solution is incorrect.
 - This student should not change the signs The first set of brack cets.
 - **b**) What is the correct answer? Show your work.

$$3y^{2}+5y+2-4y^{2}-3y-2$$

= $-y^{2}+2y$

2. The difference between two polynomials is (5x + 3). One of the two polynomials is $(4x + 1 - 3x^2)$. What is the other polynomial? Explain how you found your answer.(US, CmRp)

$$(4\chi+1-3\chi^2) - (-3\chi^2-\chi-2) = 5\chi+3.$$

I need to have $3\chi^2+\chi+2$ added to $4\chi+1-3\chi^2$.
 $\therefore [-3\chi^2-\chi-2)$ inside the brackets

ONGOING LEARNING ACTIVITIES:

CORE: Page 234: Curricular Competencies: 10, 12, 16 Content: 6ac, 7ac, 8, 9, 13, 15 ADVANCED: Page 236: 17, 18 (CmRp)