Math 9 Section 5.3 – Adding Polynomials

Name: _____

Learning Outcomes Covered:

5E: I can add polynomials.

CONTENT Assessment Questions:

1. Use algebra tiles to model each sum. Sketch your tile model. Record your answer symbolically.



- 2. Add these polynomials. Use algebra tiles if it helps.
 - a) (x-5) + (2x+2) = 37 - 3b) $(b^2 + 3b) + (b^2 - 3b)$ $= 2b^2$

c)
$$(y^2 + 6y) + (-7y^2 + 2y)$$

= $-6y^2 + 8y^2$

d)
$$(5n^2 + 5) + (-1 - 3n^2)$$

= $2n^2 + 4$

e)
$$(y^2 + 6y - 5) + (-7y^2 + 2y - 2)$$

= $-6y^2 + 8y - 7$

f)
$$(-3d^2+2) + (-2-7d^2+d)$$

= - 0 0 + 0

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Page 2 of 2

- **3.** Add these polynomials. Use algebra tiles if it helps.
 - a) (7x+3)+ (-2x-6)5x-3b) $(3x^2-4x+1)$ + $(-2x^2+4x+1)$ x^2+2

4. a) For each shape below, write the perimeter as a sum of polynomials and in simplest form.



CURRICULAR COMPETENCIES Questions:

1. The sum of two polynomials is $4r + 5 - 3r^2$. One polynomial is $-8 - 2r^2 + 2r$; what is the other polynomial? Explain how you found your answer. (CmRp)

$$(4r+5-3r^{2}) = (-8-2r^{2}+2r) + (13-r^{2}+2r)$$
$$-8+\Box = 5 \left\{ -2r^{2}+\Box = -3r^{2} \right\} 2r+\Box = 4r$$
$$\Box = 13 \qquad \Box = -r^{2} \qquad \Box = -2r$$

ONGOING LEARNING ACTIVITIES:

CORE: Page 228: Curricular Competencies: 4, 12, 14, 16 Content: 3, 6, 8aceg, 9aceg, 10a, 17 ADVANCED: Page 230: 18, 19