

	5 (AM)	Advanced	Mastery	1009
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- 4 (M) Mastery 93%
- 3 (VM) Vital Mastery 82%
- 2 (FM) Foundational Mastery 70%
- 1 (NYM) Not Yet Mastered 45%
- 0 (NA) No Attempt 0%

Name:		
Per:	Date:	

Pre-Assessment							
IM2 – 2.2 (A – Pre) Operations with Polynomials							
Standards & Skill M	· · ·		Tanahan Caana				
Student Self-Score	Skills Assessed / Goals		Teacher Score				
A.APR.1 – I can add, sub		otract, and multiply polynomials.					
	SMP – I can self-reflect:	and clearly communicate my plan for					
improvement.							
Pre-Assessment Ref	flection						
pre-assessme complete all watch tutoria study my not them.	cly, rework the ent. of my practice. als online. tes until I understand	My plan to maintain or improve my mastery is (what, when, and how?)					
Key Terms, Formula	as, & Notes						
$\frac{Polynomial}{Product} \equiv \text{Poly}$ $\frac{Product}{} \equiv \text{the result}$	v: Many, Nomial: Termult of multiplication.						
$\underline{Sum} \equiv \text{the result of}$	addition.						
$\underline{Difference} \equiv \text{The result of subtraction}.$							
<u>Combine Like Terms</u> \equiv to add or subtract terms of the same degree.							

Directions – Add or subtract the following polynomial expressions, and circle an equivalent expression (A.APR.1). Show work for credit.

1.
$$(ax + 4) + (6x - b)$$

a.
$$6ax - 4b$$

b.
$$(6+a)x - b + 4$$

c.
$$6ax - b + 4$$

d.
$$6ax^2 - bax + 10x - 4b$$

2.
$$(7y-2)-(3y+5)$$

a.
$$-21y + 10$$

b.
$$7(y-2)-3(y+5)$$

c.
$$y(7-3)-(2+5)$$

d.
$$4y + 10$$

Directions – Add or subtract the following polynomial expressions, and write the result in standard form (A.APR.1).

3.
$$(-5x^2 + 3x + 1) + (4x^2 + 5x)$$

4.
$$(4x^2 - 5x + 6) + (9x^2 - 2x) - (11x - 3)$$

Directions – Error Analysis: Circle the first mistake made in the student's work below. Then, correct the error (A.APR.1).

5. Given
$$(3x + 4x^2) - (-5x + 3)$$

Step 1
$$3x + 4x^2 + 5x + 3$$

Step 2
$$8x + 4x^2 + 3$$

Step 3
$$4x^2 + 8x + 3$$
 done!

Directions – Multiply the following polynomial expressions, and write the result in standard form (A.APR.1).

6.
$$\left(\frac{1}{2}pm\right)(-8p^3)$$

7.
$$(5x-2)(2n+6)$$

8.
$$(2d-3)(2d+3)$$

Directions – Error Analysis: Circle the first mistake made in the student's work below. Then, correct the error (A.APR.1).

9. Given
$$(ax + b)(cx - d)$$

Step 1
$$(ax)(cx) + (ax)(-d) + (b)(cx) + (b)(-d)$$

Step 2
$$(acx^2) + (-adx)(bcx) + (-bd)$$

Step 3
$$acx^2 - abcdx^2 - bd$$
 done!