NC Math 1B Unit 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date:

**Homework Lesson 2.5: Adding or Subtracting Polynomials**

1. Identify, explain, and correct the mistake in the subtraction problem below.

$$\left(2y^{2}-2y+7\right)-(6y^{2}-3y+2)$$

$$2y^{2}-2y+7-6y^{2}-3y+2$$

$$-4y^{2}-5y+9$$

**Simplify:**

1. $\left(3x^{2}+2x+6\right)+(5x^{2}+x)$ 2. $\left(2y^{5}+3y^{4}+4y^{3}+5y^{2}\right)-(4y^{2}+7y+6)$

3. $\left(-6k^{4}+19k+19\right)-(16k-10k^{2}-15)$ 4. $ \left(10x+12\right)+(6x-20)$



5. Find the perimeter 6. Find the perimeter

**Review:**

1. Classify each polynomial as a monomial, binomial, or trinomial and explain your choice.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Polynomial** | **Monomial** | **Binomial** | **Trinomial** | **Why?** |
| 2x2 |  |  |  |  |
| 4r6 – 3r2 – r |  |  |  |  |
| 1 |  |  |  |  |
| -9n + 10 |  |  |  |  |
| x |  |  |  |  |
| -1 |  |  |  |  |

2. Find the degree of each polynomial 3. Write in descending order

a. $8a^{2}+13b^{3}$ a. $2+3x+4x^{2}+3x^{3}$

b. $928$ b. $-3x+17x^{4}+29x^{2}$