

## Homework #1 - Collecting Like Terms

Date \_\_\_\_\_ 5K \_\_\_\_\_

**Collect the like terms in descending order, state the name of the polynomial, and state the degree.**

1)  $2x^2 - 5 + 11x^4 - 11x^4 - 2 + 3x^2$

2)  $-4a^3b^2 + 11a^4b - 9a^4b^4 - a^4b + 8a^4b^4 + 9a^3b^2$

3)  $0.5v + 3.1v^3 - 9.9v^3 - 10.9v - 4.3 - 9.9v^3 - 10.9v - 4.3$

4)  $-4x^3y - 3x + 2 - 4x^3y - 2x^2y^4 + 2 - 4x^3y - 2x^2y^4$

5)  $-4x^5 - 2x^4y^2 - 9x^3 - 10xy^4 + 11x^5 - xy^4 + 11xy^4 + 4x^4y^2$

6)  $-3.6 + 3.7v^3 - 1.6v^2 - 3.4v^4 - 4.648v^3 - 1.7v^2 - 2.7v^2 - 7.7v^3$

7)  $-10x^3y + 12y^2 - 4x^3y + 6y^2$

$$8) 8.8n^3 - 0.7 - 11.6n^3 + 9.4n^2 - 6.41 - 11.6n^3 + 9.4n^2 - 6.41$$

$$9) -10n - 4 + 8n + 5n^3 - 6 + 10 + 3n^3 + 2n$$

$$10) 6k^2 - 9k - 3k^4 + 5k^3 - 8k^4 - 5k^3 + 4k^2 + k - k + 6k^4 + 8k^3 + 12k^2$$

$$11) 5x^3 + 6x^2 + 8x + 7 - 3x + 11x^3 - 2 + 2x^2 - 3x + 11x^3 - 2 + 2x^2$$

$$12) \frac{12}{11} + \frac{4}{3}n - \frac{23}{8}n - \frac{1}{4}$$

$$13) \frac{16}{9}x^2 - \frac{6}{5}x^3 + \frac{23}{3}x^3 - 4x^2 + \frac{10}{7}x$$