

## H W # 3: Classify, Add and Subtract Polynomials

Classify each polynomial by degree and number of terms.

1)  $-k$

2)  $5v - 9$

3)  $-1 - 8r - 7r^2$

4)  $-10$

5)  $-6 + 8n^2 + 4n$

6)  $10x^2 - x$

Simplify each expression. Write your answer in standard form (descending order).

7)  $n^3 - 3n + 2n + n^3$

8)  $2a^2 + 5 + 4 + 4a^2$

9)  $8p^2 - 3p^3 + 3p^3 + 5p^2$

10)  $(7p + 2 - 2p^2) + (5p^2 - p)$

11)  $(3 - 3x^2) - (x^4 - 6x^2 - 2)$

12)  $(-8 + 5x) + (4x - 8x^4)$

13)  $(8r - 4r^2) + (6r^2 + 2r)$

