Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ADDING AND SUBTRACTING POLYNOMIALS**

1) $\left(a^{3}-2a^{2}\right)-\left(3a^{2}-4a^{3}\right)$ (2) $\left(4n-3n^{3}\right)+\left(3n^{3}+4n\right)$

3) $\left(4r^{3}+3r^{4}\right)-\left(r^{4}-5r^{3}\right)$ (4) $\left(3x^{4}-3x\right)+\left(3x+3x^{4}\right)$

5) $\left(3-6n^{5}-8n^{4}\right)-\left(-6n^{4}-3n-8n^{5}\right)$ (6) $\left(8n-3n^{4}+10n^{2}\right)+\left(3m^{2}+11n^{4}-7\right)$

7) $\left(9r^{3}+5r^{2}+11r\right)-\left(-2r^{3}+9r-8r^{2}\right)$ (8) $\left(-7x^{5}+14-2x\right)+\left(10x^{4}+7x+5x^{5}\right)$

**MULTIPLYING POLYNOMIALS**

9) $7\left(-5v-8\right)$ (10) $-4\left(v+1\right)$

11) $\left(4n+1\right)\left(2n+6\right)$ (12) $\left(8p-2\right)\left(6p+2\right)$

13) $\left(3m-1\right)\left(8m+7\right)$ (14) $\left(5m+6\right)\left(5m-5\right)$