

**Algebra 2 Unit 2 Quiz REVIEW**– Sections 2.1 – 2.3– Add, Subtract, and Multiply Polynomials. Name Polynomials. Factor Using GCF and DOS

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

**Find the sum, difference, or product.**

1.  $(x^2 - 3x + 5) + (-2x^2 + 11x + 1)$

2.  $(8y^3 - 7y^2 + y) - (8y^3 - 5y^2 + 7)$

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

3.  $-2x^2(3x^5 - x^3)$

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

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

5.  $(2r + 11)(r - 6)$

6.  $(8p - 2)(p + 1)$

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

7.  $(5w+9)^2$

8.  $(2s-7)^2$

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

9.  $(x+4)(x-4)$

10.  $(2x-4)^3$

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

Standard Form:

Leading Coefficient:

Degree:                      Terms:

Name:

**Factor using GCF or DOS or both.**

1.  $m^6 - 16$

2.  $2a^2 + 8a$

3.  $49x^2 - 81y^8$

4.  $25x^2 - 16$

5.  $16 - x^2$

6.  $10c^3d^2 - 15cd^3$

7.  $3y^2 + 9y - 15$

8.  $6x^2yz + 2xy^2z - 4xyz$

9.  $a^4b^2 - 1$

10.  $96r^2 - 54$

11.  $27x^2 - 12$

12.  $12a^4b^3c^2 - 4a^3bc^2 + 8a^2c - 16ab$

13.  $50 - 98x^2$

14.  $36 - x^2$