

Name: _____

Date: _____

Hour: _____

Class work 11.1- Adding and Subtracting Polynomials

Rewrite Each Polynomial in Standard Form.

1.) $6 + c + c^3$

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

3.) $10 + p^2$

Write the degree of each polynomial.

4.) $4r + 1$

5.) $x^3 + x^4 + x - 1$

6.) $y + y^4$

Identify each polynomial by name from the number of terms and its degree.

7.) $3x + 1$

8.) $8x^2 - 1$

9.) $8x^2 - 2x + 3$

Use the vertical method to add.

10.) $3x^2 + 4x^4 - x + 1$ and $3x^4 + x^2 - 6$

11.) $2y^3 + y^2 + 1$ and $3x^3 - y^2 + 2$

12.) $4r^4 + r^3 - 6$ and $r^3 + r^2$

13.) $2c - 3$ and $c^2 + c + 4$

Use the horizontal form to add.

14.) $y^3 - 4$ and $y^2 - 2$

15.) $x^3 + 2x - 1$ and $3x^2 + 4$

16.) $3s^2 + 7s - 6$ and $s^3 + s^2 - s - 1$

17.) $w^3 + w - 2$ and $4w^3 - 7w + 2$

Use the vertical method to subtract.

18.) $x^2 + x$ from $x^3 + x^2 + 7$

19.) $3y^2 - 4$ from $4y^2 - y + 6$

20.) $4c^3 - c^2 - 1$ from $5c^3 + 10c + 5$

21.) $8x^3$ from $x^3 - x + 4$

Use the horizontal form to subtract.

22.) $y^2 + 3y + 2 - (3y - 2)$

23.) $3x^2 - 2x + 10 - (2x^2 + 4x - 6)$

24.) $3x^2 - 5x + 3 - (2x^2 - x - 4)$

25.) $2x^2 + 5x - (x^2 - 3)$