

## 10-1 Practice Problem Answers

Directions 1-3: Put each polynomial into standard form and find the degree.

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

SF:  $-4x^3 + 5x^2 + 5$

Deg: 3

2)  $10x^6 - 13x^7$

SF:  $-13x^7 + 10x^6$

DEG: 7

3)  $6 - 4g^2 + 7g + 5g^3$

SF:  $5g^3 - 4g^2 + 7g + 6$

Deg: 3

Directions 4-10: Find each sum or difference.

4)  $(5a^2 - 3) + (8a^2 - 1)$

$13a^2 - 4$

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

$7k^2 + 3k^2 + 2k - 11k - 6 - 8$

$10k^2 - 9k - 14$

6)  $(4m^2 - m + 2) + (-3m^2 + 10m + 7)$

$4m^2 - 3m^2 - m + 10m + 2 + 7$

$m^2 + 9m + 9$

7)  $(6c^2 + 3c + 9) - (3c - 5)$

$6c^2 + 3c + 9 - 3c + 5$

$6c^2 + 14$

8)  $(-n^2 + 2n) - (2n^3 - n^2 + n + 12)$

$-n^2 + 2n - 2n^3 + n^2 - n - 12$

$-2n^3 + n - 12$

9)  $(9b^3 - 13b^2 + b) - (-13b^2 - 5b + 14)$

$9b^3 - 13b^2 + b + 13b^2 + 5b - 14$

$9b^3 + 6b - 14$

10)  $(9p^3 - p + 3 - 11p) + (7p^3 - 3p^2 + 4) - (5p^2 - p^3 + 10)$

$-5p^2 + p^3 - 10$

$7p^3 + p^3 + 9p^2 - 3p^2 - 5p^2 - 6p - 11p + 3 + 4 - 10$

$8p^3 + p^2 - 17p - 3$

11) Describe and correct the error below:

$(6x^2 - 5x) - (2x^2 + 3x - 2)$

$6x^2 - 5x - 2x^2 + 3x + 2$

minus

$4x^2 - 8x + 2$

DID NOT DISTRIBUTE TO EVERY TERM