Section 10.1 Worksheet

Write the polynomial in standard form.

1. $3y + 4y^2 - 5$

2. $x - 7x^3 + 2$

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

4. $-4x + 7x^4 - 5x^3 + 1$

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

6. $8 + 2x + 4x^2$

Identify the polynomial by degree and by number of terms.

7. 14

8. $1 - x^2$

9. $-3x^2 + 6x - 2$

10. $x - x^3 + 3x^2 + 9$

11. $2x + 3$

14. $x^3 - 5x - 5$

Add or subtract the following polynomials.

15. $(6x + 4) + (x + 5)$

16. $(4m^2 - 5) + (3m^2 - 2)$

17. $(2y^2 + y - 1) + (7y^2 + 4y - 3)$

18. $(3x^2 + 5) - (x^2 + 2)$

19. $(10a^2 + 4a - 5) - (3a^2 + 2a + 1)$

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