Add, Subtract, Multiply, Divide Polynomials

Simplify the polynomial expression. Write your answers in standard form. What is the degree of the polynomial?

1. (15x2 – 3x + 11) + (2x3 – x2 + 6x + 1)
2. (3x2 – 5x) – (-4 + x2 + x)
3. (2y2 – 5y + 3) + (y2 – 2y – 5)
4. (x2 – 3x + 4) – (3x + x3 – 4)
5. (3x – 2)(3x + 1)
6. (5x3 + x2 – 9x)(x + 2)
7. (30 + x3 + x2)(x – 15 – x2)
8. (2x – 2)3
9. 6y2 + 13y – 8

2y – 1

1. x3 + 2x2 – x – 2

x + 2

1. 2x3 – 13x2 + 19x – 5

2x – 3

1. -5x – x3 – 2 + 5x2

x – 2