

**Math 0406-Learning Outcome:  
Add or Subtract Polynomial Expressions**

**Add or subtract:**

1.  $(5x+3)+(2x-7)$

2.  $(5x+3)-(2x-7)$

3.  $(3x^2-4x+8)-(2x^2-2x+3)$

4.  $(3x^2-4x+8)+(2x^2-2x+3)$

5.  $(-4x^2-8x-9)+(2x^3-4x^2+1)$

6.  $(-4x^2-8x-9)-(2x^3-4x^2+1)$

7.  $(5a^3+3a^2-2a-9)+(2a^3+3a^2-8a+6)$

8.  $(2a^4-9)-(5a^3-3a^2-8)$

9.  $(4x^3+2x-5)-(2x^3+2x-5)$

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

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**Solutions**

1.  $7x - 4$

2.  $3x + 10$

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

4.  $5x^2 - 6x + 11$

5.  $2x^3 - 8x^2 - 8x - 8$

6.  $-2x^3 - 8x - 10$

7.  $7a^3 + 6a^2 - 10a - 3$

8.  $2a^4 - 5a^3 + 3a^2 - 1$

9.  $2x^3$

10.  $-4a^3 + 6a^2 - 3a + 1$