

## Adding and Subtracting Polynomials

### Adding Polynomials:

Ex. 1  $(5x - 8) + (7x + 10)$

Ex. 2  $(-a^2 + 2a - 8) + (2a^2 - 9a + 15)$

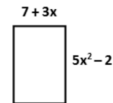
### Adding Polynomials:

Ex. 3 Find the sum of  $(2x^2 + 8x + 4)$  and  $(x^2 - 8x - 2)$

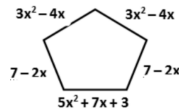
Ex. 4 Find the sum of  $(-5w^2 + 3w - 8)$  and  $(15w^2 - 4w + 11)$

### Adding Polynomials:

Ex. 5 Find the perimeter of the following:



Ex. 6 Find the perimeter of the following:



### Subtracting Polynomials:

Ex. 1  $(-6x - 4) - (2x + 6)$

Ex. 2  $(-7m^3 - m^2 - m) - (-10m^3 - m - 1)$

### Subtracting Polynomials:

Ex. 3  $(4m^2 + 9m) - (2m^2 + 6)$

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

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Adding and Subtracting Polynomials  
Practice

Student Practice: Put answers in standard form.

1.  $(4x^2 + x + 6) + (7x - 10)$
2.  $(-8x^2 + x + 5) - (2x^2 - 3)$
3.  $(8x + 5) - (3x - 6)$
4.  $(14p^4 + 7p^2) + (8p^3 + 7p^2 - p)$

Student Practice: Put answers in standard form.

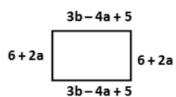
5. Find the sum of  $(14 - 6x)$  and  $(8x - 5)$
6.  $(3x^4 + 3x^2 - 3) - (6x^5 - 9x^3 + 2)$
7.  $(5x^2 + 2x + 1) + (4x^2 + 3x - 8)$
8. Find the sum of  $(14x - 6)$ ,  $(8x - 5)$ ,  $(x + 4)$ , &  $(2x + 1)$

Student Practice: Put answers in standard form.

9. Find the sum of  $(-x^2 + 5x - 12)$  and  $(2x^2 - 6)$
10.  $(2x^2 + 3x - 4) + (3x^2 - 4x + 9) + (-3x^2 + 3x + 7)$
11.  $(5x^2 - 6x - 1) - (4x^2 - 2x + 1)$
12.  $(14p^4 + 7p^2) + (8p^3 + 7p^2 - p)$

Student Practice: Put answers in standard form.

13. Find the perimeter of the following:



14. Find the perimeter of the following:

