

Name:

Period:

Date:

## Practice Worksheet: Adding & Subtracting Polynomials

Perform the indicated operations. Write the answer in standard form.

1] $(11x^2 + 2x - 8) + (4x^2 - 5x + 7)$	2] $(-7x^3 - 2x^2 + 6) + (-5x^2 + 4x - 9)$
3] $(6x^3 + 5x^2 - 10x + 1) - (-2x^3 - 3x^2 + 3x)$	4] $(4x^2 + 3) - (x^3 - 5x + 2)$
5] $(3x^2 - 8x + 11) - (4x + 7) + (-2x^2 - 7)$	6] $(6x^3 - 4x) + (-x^3 + 2x^2 - 9x) - (5x^2 - 7x + 4)$
7] $(10x^2 + 6x) - (3x + 5) - (-4x^2 + 3x + 17)$	8] $(2x^2 + 7x - 9) - (x^2 + 3) - (x^2 + 7x - 12)$

9] A community swimming pool with the given dimensions is in the shape of a rectangle as shown. An Olympic swimming pool is also shown. How much larger is the perimeter, expressed as a polynomial, of the Olympic pool than the perimeter of the community pool? Show work.

