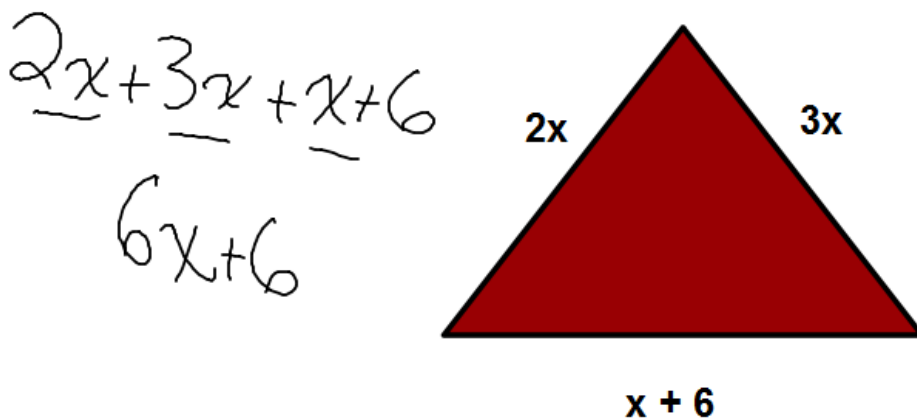


5-7 and 5-8 Addition and Subtraction of Polynomials

Express the perimeter of the triangle as a polynomial:



To subtract:

- 1.) Remove parentheses from 1st quantity
- 2.) Change all the signs of 2nd quantity and remove parentheses
- 3.) Combine like terms

Add.

$$(5x^2 + 3x + 4) + (3x^2 + 5)$$

$$\begin{array}{r} \underline{5x^2} + \underline{3x} + \underline{4} + \underline{3x^2} + \underline{5} \\ 8x^2 + 3x + 9 \end{array}$$

$$(7a^2b^3 + ab) + (1 - 2a^2b^3)$$

$$\begin{array}{r} \underline{7a^2b^3} + \underline{ab} + \underline{1} - \underline{2a^2b^3} \\ 5a^2b^3 + ab + 1 \end{array}$$

To subtract:

- 1.) Remove parentheses from 1st quantity
- 2.) Change all the signs of 2nd quantity and remove parentheses
- 3.) Combine like terms

Subtract:

$$(5x^2 + 3x - 2) - (2x^2 + 1)$$

$$\underline{5x^2} + \underline{3x} + \underline{2} - \underline{2x^2} - \underline{1}$$

$$3x^2 + 3x - 3$$

$$(2a^2b^2 + 3ab^3 - 4b^4) + (a^2b^2 + 5ab^3 + 3b + 2b^4)$$

$$\underline{2a^2b^2} + \underline{3ab^3} - \underline{4b^4} - \underline{a^2b^2} + \underline{5ab^3} - \underline{3b} + \underline{2b^4}$$

$$1a^2b^2 + 8ab^3 - 2b^4 - 3b$$