2.4   Applying Polynomials
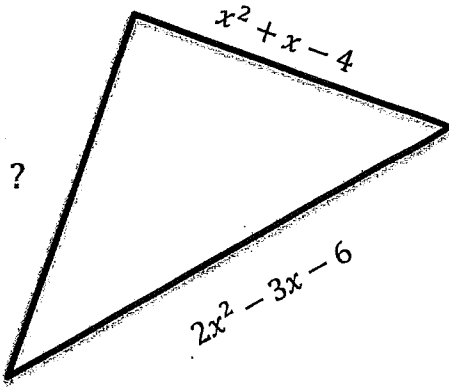
Given the expressions for the perimeter and the expressions for the two sides, find the expression for the third side.

$P = 5x^2 - 6x + 12$

$?? = P - side1 - side2$

$= (5x^2 - 6x + 12) - (x^2 + x - 4) - (2x^2 - 3x - 6)$

$= 5x^2 - x^2 - 2x^2 - 6x - x + 3x + 12 + 4 + 6$

$= 2x^2 - 4x + 20$

OR TRY INTUITIVELY