PROBLEM: find solution for equation $-4(x-2)(x+3)-5x^2-4=-5x(2x-3)+5x^2-3$

Find variable in equation:
x is the variable
$-4(x-2)(x+3)-5x^2-4=-5x(2x-3)+5x^2-3$ is the equation with one variable **x**
Find variable with exponent $-4(x-2)(x+3)-5x^2-4=-5x(2x-3)+5x^2$
$-4(x-2)(x+3)-5x^2-4=-5x(2x-3)+5x^2-3$ can be quadratic equation (it has exponent x^2)

solving quadratic equation is to transform it into proper form $ax^2+bx+c=0$ that is to have all terms on the left side
Find if equation $-4(x-2)(x+3)-5x^2-4=-5x(2x-3)+5x^2$ **is in a proper form**

Find expression on the left side and on the right side of the equation
expression on the left side of equation is $-4(\mathbf{x}-2)(x+3)-5x^2-4$
expression on the right side of equation is $-5x(2x-3)+5x^2-3$

Equation is not in proper form because right side is not equal to zero
Perform operation on both sides of equation