

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

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