

F**O****I****L***first**outer**inner**last*

MULTIPLY $(x-1)(x+5)$

multiply the first term in each set of parenthesis

$$(x-1)(x+5) = x \cdot x = x^2$$

multiply the outer term in each set of parenthesis

$$(x-1)(x+5) = x \cdot 5 = 5x$$

multiply the inner term in each set of parenthesis

$$(x-1)(x+5) = -1 \cdot x = -x$$

multiply the last term in each set of parenthesis

$$(x-1)(x+5) = -1 \cdot 5 = -5$$

add all of the results together

$$x^2 + 5x + -x + -5$$

combine like terms

$$x^2 + 4x - 5$$