

Special Polynomial Products



Overview of problems



Example Set: A

Multiply the given polynomials

$$(x + 3)(x - 3)$$

$$(y - 4)(y + 4)$$

$$(5x + 2)(5x - 2)$$

$$(2x - 4)(2x + 4)$$

$$(4x + 3y)(4x - 3y)$$



Example Set: B

Multiply the given polynomials

$$(x+5)^2$$

$$(y+3)^2$$

$$(3t+2)^2$$

$$(2x+4y)^2$$



Example Set: C

Multiply the given polynomials

$$(x-7)^2$$

$$(t-4)^2$$

$$(2a-3b)^2$$

$$(3m-n)^2$$

Special Polynomial Products



Overview of problems- KEY



Example Set: A

Multiply the given polynomials

$$(x + 3)(x - 3) \quad x^2 - 9$$

$$(y - 4)(y + 4) \quad y^2 - 16$$

$$(5x + 2)(5x - 2) \quad 25x^2 - 4$$

$$(2x - 4)(2x + 4) \quad 4x^2 - 16$$

$$(4x + 3y)(4x - 3y) \quad 16x^2 - 9y^2$$



Example Set: B

Multiply the given polynomials

$$(x+5)^2 \quad x^2 + 10x + 25$$

$$(y+3)^2 \quad y^2 + 6y + 9$$

$$(3t+2)^2 \quad 9t^2 + 12t + 4$$

$$(2x+4y)^2 \quad 4x^2 + 16xy + 16y^2$$



Example Set: C

Multiply the given polynomials

$$(x-7)^2 \quad x^2 - 14x + 49$$

$$(t-4)^2 \quad t^2 - 8t + 16$$

$$(2a-3b)^2 \quad 4a^2 - 12ab + 9b^2$$

$$(3m-n)^2 \quad 9m^2 - 6mn + n^2$$