

The slide features a light beige background with a blue grid pattern in the top-left and bottom-right corners. A dark blue rectangular area is positioned on the left side, containing the title and chapter information. A vertical red bar is located on the far left edge of the slide.

# Algebra 1

Chapter 8  
Section 8-3

## Distributing Review

$$\begin{aligned} &8(7 - x) \\ &56 - 8x \end{aligned}$$

$$\begin{aligned} &13y^5(y^2 + y - 3) \\ &13y^7 + 13y^6 - 39y^5 \end{aligned}$$

$$\begin{aligned} &4x(3x - 11) \\ &12x^2 - 44x \end{aligned}$$

$$\begin{aligned} &7ac(2a - 5b + 7c) \\ &14a^2c - 35abc + 49ac^2 \end{aligned}$$

# FOIL

$$(7x - 4)(2x + 3)$$

**F**irst  $(7x)(2x) = 14x^2$

**O**utside  $(7x)(3) = 21x$

**I**nside  $(-4)(2x) = -8x$

**L**ast  $(-4)(3) = -12$

$$14x^2 + 13x - 12$$

## Use the FOIL Method and Simplify

$$(x + 3)(x + 10)$$

$$(3m^3 + 2m)(5m^2 - 1)$$

$$(2r - 3)(r - 6)$$

$$(y^5 - 5)(y^2 - 2)$$

$$x^2 + 10x + 3x + 30$$

$$x^2 + 13x + 30$$

$$15m^5 - 3m^3 + 10m^3 - 2m$$

$$15m^5 + 7m^3 - 2m$$

$$2r^2 - 12r - 3r + 18$$

$$2r^2 - 15r + 18$$

terms)

$$y^7 - 2y^5 - 5y^2 + 10$$

already simplified (no like

## More FOIL

$$(s - 4)(t + 3)$$
$$st + 3s - 4t - 12$$

$$(k + n)(2k + 3)$$
$$2k^2 + 3k + 2nk + 3n$$

## Two Terms and Three Terms

$$14x^3 - 10x^2 - 8x + 21x^2 - 15x - 12$$
$$=$$
$$14x^3 + 11x^2 - 23x - 12$$

$$(2x + 3)(7x^2 - 5x - 4)$$
