"arm-up 2/

Solve each polynomials using distributive property for #1, FOIL, for #2, and box method for #3.

1. $(2x^2)(4x^4 - x^2 + 7)$

2. (x + 4)(2x - 5)

3. $(3y - 4)^2$

Solve each polynomials using distributive property for #1, FOIL, for #2, and box method for #3.



1°M-1

Solve each polynomials using distributive property for #1, FOIL, for #2, and box method for #3.



2. (x + 4)(2x - 5) x(2x) + X(-5)+4(2x)+4(-5 2x2+(-5x)+8x) +-20 3x -20



Today's Goal

I can

- multiply monomial and polynomial expressions using the distributive method
- multiply 2 binomials using FOIL, distributive, and rectangle/box method

<u>Section 8.3b: Multiplying Polynomials</u>

Distributive Method



Distributive Method $(x + 5)(x^{2} + 2x - 3)$ $(x + 5)(x^{2} + 2x - 3)$ (x + 5) + 2x + 5) - 3(x + 5) $(x^{2}(x) + x^{2}(5) + 2x(x) + 2x(5) - 3(x) - 3(5))$ $x^{3} + 5x^{2} + 2x^{2} + 10x - 3x - 15$ $(x^{3} + 7x^{2} + 7x - 15)$



Section 8.3b: Multiplying Polynomials

Box/Rectangle Method

(5x + 3) (2x + 10) 5x + 3 $10x^{2} + 50x + 30$ $10x^{2} + 56x + 30$ $10x^{2} + 56x + 30$

Rectangle Method

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









Perimeter:

۱



$(x - 3)^2(x + 2)$

Multiplying Polynomials.notebook

Homework

Worksheet and Project part 1