Lesson #8.1: Factoring Expressions with Common Factors

Name: May 7, 2022

Learning Goal: We are learning to Factor expressions that contain common factors.

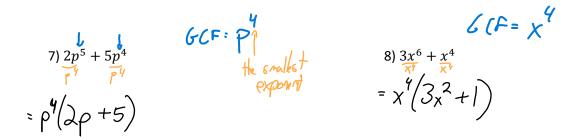
2)[2n²(6n-8) - add examps when multiplying Simplify each expression. 1) $(5r^2 + 1 - 4r^4) + (2r^3 + 2r^4)$ $-2r^{3}-2r^{4}$ $= 12n^3 - 16n^2$ -2r' - 2r''4) $5(2y^2 + 3y - 8) - 2y(3y - 4)$ 3) $\frac{6x^3y+3x^2y^3}{\sqrt{3x^2y!}}$; subtract exportion = 10y + 15y - 40 - 6y2 + 8y = 2x' + y2 = 4y2 + 23y - 40

Notes on Common Factoring: Factoring is the <u>Opposite</u> of expanding. Hence, when expanding, that work eliminates brackets. Factoring brings brackets back into the equation. Also, expanding uses multiplication, therefore factoring uses ________

6cF= 5

5) $\frac{8n^2 - 6}{2} = 2 \left(\frac{4n^2 - 3}{5} \right)$ $\frac{6}{2} = 2 \left(\frac{4n^2 - 3}{5} \right)$

 $=5(4n^{5}+3)$



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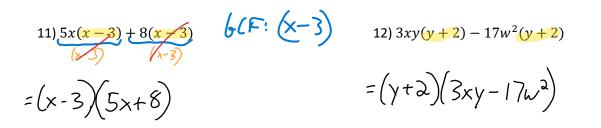
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Success Criteria:

- I can identify common factors
- I can factor expressions by dividing each term by the common factor
- I can write a factored expression as a monomial × a polynomial