⊌lulumath

Factoring Trinomials $(ax^2 + bx + c)$ by Decomposition

(Video Notes)

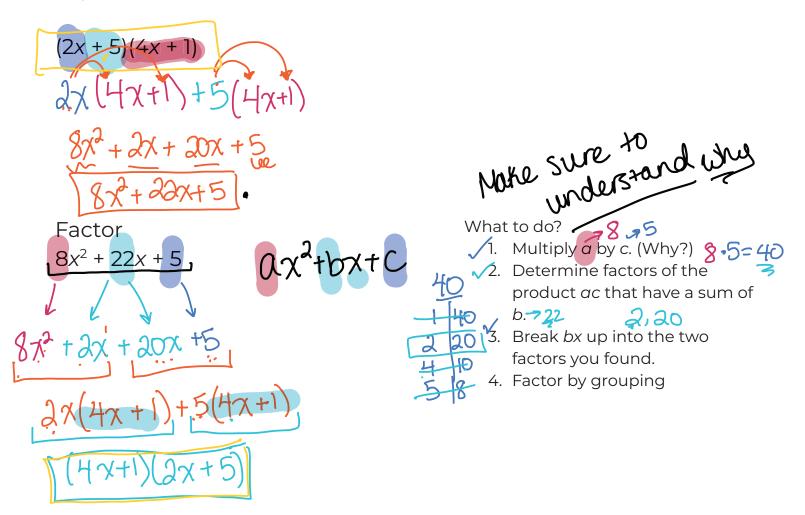
Video Link

Factoring Trinomials $(ax^2 + bx + c)$ by Decomposition

What background knowledge will I need?

- How to multiply a binomial by a binomial
- How to factor by grouping

Expand:

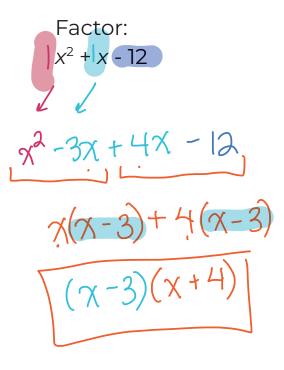


Factor: $\chi(\chi-2)-5(\chi-2)$



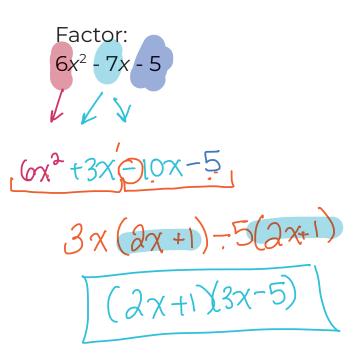
- What to do? $2 \cdot 10$ $2 \cdot 10 = 20$
 - 2. Determine factors of the product ac that have a sum of b.7-9 -4 and -5

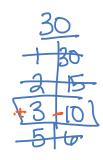
 3. Break bx up into the two factors
 - vou found.
 - 4. Factor by grouping



What to do? $\frac{1}{\sqrt{1}}$. Multiply a by c. $\frac{1}{\sqrt{1}}$

- 2. Determine factors of the product ac that have a sum of
- b.- 1 3 and 4 3. Break bx up into the two factors you found.
 - 4. Factor by grouping.





What to do? ____6___5

1. Multiply a by c. 6 - 5= -30

- 2. Determine factors of the product ac that have a sum of b.? -7. 3 and D
- 3. Break bx up into the two factors you found.
- 4. Factor by grouping.

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