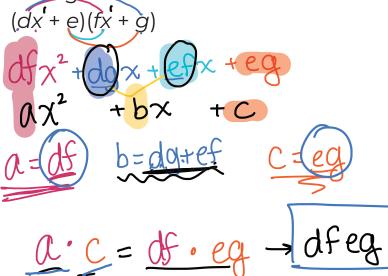
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Factoring Trinomials $(ax^2 + bx + c)$ by Decomposition: Why Multiply a by c?

Video Link

Factoring Trinomials $(ax^2 + bx + c)$ by Decomposition: Why Multiply a by c?

Let's generalize this:



What to do?

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

since b= dg+ef, then dg and ef are factors of ac. .: a.c=dg.ef=dfeg