4.6 More Trinomial Factoring

Factor using **decomposition**. $2x^2 - x - 6$

Decomposition Shortcut

Ex. 1 Factor completely

a)
$$3x^2 - 10x + 8$$

b)
$$6x^2 - 5x - 4$$

Don't over-complicate... If you have to factor an expression like $3x^2 + 1x - 2$, there aren't many possibilities! Do you know why?

Working Forwards - notice the patterns as we take it up a notch!

Ex.2 Expand.

a)
$$(x + 3y)(x - 5y)$$

Ex.3 Factor

b)
$$x^2 + 8xy + 7y^2$$

c)
$$x^4 + 9x^2 + 20$$

 $How \ can \ we \ check \ to \ see \ if \ our \ factoring \ is \ correct?$