

March 29, 2017

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

1st  $(3x)^5 = 243x^5$       Last  $(-5)^5 = -3125$

$$(3x)^5 = (3x)(3x)(3x)(3x)(3x) = 243x^5$$

$$(-5)^5 = -3125$$

Mar 29-9:14 AM

Multiplication: Special Products

①  $(a + b)^2 = (a + b)(a + b)$

$$= a^2 + ab + ab + b^2$$

$$= a^2 + 2ab + b^2$$


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$$(6y - 5)^2 = 36y^2 - 60y + 25$$

Mar 29-9:26 AM

②  $(a + b)(a - b)$  FOIL (only for two Binomials)

↑ sum      ↑ difference

First:  $a \cdot a = a^2$

Outer:  $a \cdot (-b) = -ab$

Inner:  $b \cdot a = ba = ab$

Last:  $b \cdot (-b) = -b^2$

$$a^2 - b^2 \rightarrow \text{Difference of Two Squares}$$

Mar 29-9:40 AM