

Chapter 09

ALGEBRAIC EXPRESSION & IDENTITIES

Identity- II:

$$(a - b)^2 = a^2 - 2ab + b^2$$

Proof:

$$(a - b)^2 = (a - b)(a - b)$$

$$= a(a - b) - b(a - b)$$

($\because$ Multiply of a Binomial by a Binomial)

$$= a^2 - ab - ba + b^2 \quad (\because \text{By multiply})$$

$$\therefore \boxed{(a - b)^2 = a^2 - 2ab + b^2} \quad (\because \text{By simplify like terms})$$

