

"FOIL METHOD"

Notes : Multiplying Polynomials

Ex.1 | $(x+4)(x-7)$

$$x^2 - 7x + 4x - 28$$

$$\boxed{x^2 - 3x - 28}$$

Ex.2 | $(3x+5)(x-4)$

$$3x^2 - 12x + 5x - 20$$

$$\boxed{3x^2 - 7x - 20}$$

Ex.3 | $(x+5)(x^2 - 3x + 7)$

$$x^3 - 3x^2 + 7x + 5x^2 - 15x + 35$$

$$\boxed{x^3 + 2x^2 - 8x + 35}$$

Ex.4 | $(3x+2)(2x^2 - x - 10)$

$$6x^2 - 3x^2 - 30x + 4x^2 - 2x - 20$$

$$\boxed{6x^2 + x^2 - 32x - 20}$$