**SUTRO:**

**1)** $(a + b)^2 = a^2 + 2ab + b^2$

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

**1+ 2 korsi**

**3)** $2(a^2 + b^2) = (a + b)^2 + (a - b)^2$

**1-2 korsi**

$4ab = (a + b)^2 - (a - b)^2$

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

**3 no er onurup:**

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

**4 er onurup:**

$ab = (a + b)^2/4 - (a - b)^2/4$

***MATH:***

**Udahoro: 11)**

Dhori,

2x + 3y = a

4x - 5y = b

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Jog kore, 6x -2y = a+b

Biyog kore, -2x +8y = a-b

ab = ((a+b)/2 )^2 – ((ab-b)/2 )^2

= **(3x–y)^2** – (-x+4y)^2

= 9x^2 — 6xy + y^2 – (16y^2 – 8xy + x^2)

= 9x^2 — 6xy + y^2 – 16y^2 + 8xy -x^2

= 8x^2 +2xy -15y^2

**Nije koro:**

1. (2x-4y)(x+y) = **2x^2 - 2xy – 4y^2** [sorol koro bolle]

   **ans:** dhori,

   a = 2x – 4y

   b = x + y

   —--------

   Jog kore, a+b = 3x – 3y

   Biog kore, a-b = x – 5y

   Amra jani,

   ab = ((a-b)/2 )^2 - ((a-b)/2)^2

   = ((3x – 3y)/2)^2 – ((x – 5y)/2)^2

   = **(3/2 * (x-y))^2 – (x–5y)/2)^2** {**2 ti rashir borgo akare prokash**}

   = 9 *(x^2 –2xy+y^2) /4 – (x^2 – 2x *5y + 25y^2)/4

   = ¼ ( 9x^2 – x^2 –18xy +10xy +9y^2 -25y^2)

   = ¼ (8x^2 – 8xy –16y^2)

   = **2x^2 -2xy –4y^2** **{sorol rup e ans}**