

**Đề bài: Làm tính nhân:**

a)  $(\frac{1}{2}x + y)(\frac{1}{2}x + y)$ ;

b)  $(x - \frac{1}{2}y)(x - \frac{1}{2}y)$

**Lời giải đáp án:**

$$\begin{aligned} \text{a) } (\frac{1}{2}x + y)(\frac{1}{2}x + y) &= \frac{1}{2}x \cdot \frac{1}{2}x + \frac{1}{2}x \cdot y + y \cdot \frac{1}{2}x + y \cdot y \\ &= \frac{1}{4}x^2 + \frac{1}{2}xy + \frac{1}{2}xy + y^2 \\ &= \frac{1}{4}x^2 + xy + y^2 \end{aligned}$$

$$\begin{aligned} \text{b) } (x - \frac{1}{2}y)(x - \frac{1}{2}y) &= x \cdot x + x(-\frac{1}{2}y) + (-\frac{1}{2}y \cdot x) + (-\frac{1}{2}y)(-\frac{1}{2}y) \\ &= x^2 - \frac{1}{2}xy - \frac{1}{2}xy + \frac{1}{4}y^2 \\ &= x^2 - xy + \frac{1}{4}y^2 \end{aligned}$$