

Actividad 4

1. Complete el término que falta en los siguientes productos notables:

1) $(x+3)^2 = x^2 + \underline{\hspace{1cm}} + 9$

4) $(x+9)^2 = x^2 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

2) $(x-5)^2 = \underline{\hspace{1cm}} - 10x + 25$

5) $(\underline{\hspace{1cm}} - 8)^2 = x^2 - \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

3) $(x-7)^2 = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} + 49$

6) $(x - \underline{\hspace{1cm}})^2 = \underline{\hspace{1cm}} - 14x + \underline{\hspace{1cm}}$

2. Unir con flechas el cuadrado con la expresión algebraica de su área

The diagram shows a large square with side length $a+b$, divided into four colored regions. The regions are labeled with algebraic expressions:

- Top-left (green): ab
- Top-right (red): $9-12x+4x^2$ and b^2
- Bottom-left (purple): a^2
- Bottom-right (green): $25+10x+x^2$ and ab

The large square is also labeled with a and b on its sides, and $a+b$ on its bottom side. The small squares have side lengths: $x+2$, $x-5$, $3-2x$, and $5+x$. A yellow box with $a+$ is next to the $x-5$ square, and a yellow box with $a+b$ is next to the $5+x$ square.