

$$\begin{aligned}
 & \left(\begin{array}{c} x+5y \\ x^2-5xy \end{array} - \begin{array}{c} x-5y \\ x^2+5xy \end{array} \right) * \begin{array}{c} 25y^2-x^2 \\ 5y^2 \end{array} = \left(\begin{array}{c} x+5y \\ x(x-5y) \end{array} - \begin{array}{c} x-5y \\ x(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} \\
 & \left(\begin{array}{c} (x+5y)^*(x+5y) \\ x(x-5y)(x+5y) \end{array} - \begin{array}{c} (x-5y)(x-5y) \\ x(x-5y)(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} = \left(\begin{array}{c} (x+5y)^*(x+5y)-(x-5y)(x-5y) \\ x(x-5y)(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} \\
 & \left(\begin{array}{c} (x+5y)^2-(x-5y)^2 \\ x(x-5y)(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} = \left(\begin{array}{c} ((x+5y)-(x-5y))((x+5y)+(x-5y)) \\ x(x-5y)(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} \\
 & \left(\begin{array}{c} (x+5y-x+5y)(x+5y+x-5y) \\ x(x-5y)(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} = \left(\begin{array}{c} 10y^2x \\ x(x-5y)(x+5y) \end{array} \right) * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} = \begin{array}{c} 20xy \\ x(x-5y)(x+5y) \end{array} * \begin{array}{c} (5y-x)(5y+x) \\ 5y^2 \end{array} = \begin{array}{c} 4x \\ x(x-5y) \end{array} * \begin{array}{c} (5y-x) \\ y \end{array} \\
 & \begin{array}{c} -4x \quad (-5y+x) \\ yx(x-5y) \end{array} \quad \begin{array}{c} -4x \\ yx \end{array} \quad \begin{array}{c} -4 \\ y \end{array}
 \end{aligned}$$