

# Klammern - 19 (Lösung)

Berechne:

$$\begin{aligned} \text{a) } & (-0,1xy + 1,5x)(-0,5x + y^2) = \\ & \underline{0,05x^2y - 0,1xy^3 - 0,75x^2 + 1,5xy^2} \end{aligned}$$

$$\begin{aligned} \text{b) } & \left(\frac{1}{2}x + 1\right)\left(y + \frac{1}{4}\right) = \\ & \underline{\frac{1}{2}xy + \frac{1}{8}x + y + \frac{1}{4}} \end{aligned}$$

$$\begin{aligned} \text{c) } & \left(5x - \frac{1}{2}\right)\left(6 + \frac{1}{5}x\right) = \\ & 30x + x^2 - 3 - \frac{1}{10}x = \\ & \underline{29,9x + x^2 - 3} \end{aligned}$$

$$\begin{aligned} \text{d) } & \left(\frac{1}{4}a + 3\right)\left(2b - \frac{1}{2}\right) = \\ & \underline{\frac{1}{2}ab - \frac{1}{8}a + 6b - 1,5} \end{aligned}$$

$$\begin{aligned} \text{e) } & \left(x - \frac{1}{2}y\right)\left(x - \frac{2}{3}y\right) = \\ & x^2 - \frac{2}{3}xy - \frac{1}{2}xy + \frac{1}{3}y^2 = \\ & \underline{x^2 - 1\frac{1}{6}xy + \frac{1}{3}y^2} \end{aligned}$$

$$\begin{aligned} \text{f) } & \left(\frac{3}{4}a - \frac{2}{3}b\right)\left(\frac{1}{3}a - \frac{1}{2}b\right) = \\ & \frac{1}{4}a^2 - \frac{3}{8}ab - \frac{2}{9}ab + \frac{1}{3}b^2 = \\ & \underline{\frac{1}{4}a^2 - \frac{43}{72}ab + \frac{1}{3}b^2} \end{aligned}$$

$$\begin{aligned} \text{g) } & \left(\frac{3}{2}u - \frac{3}{4}v\right)\left(-\frac{2}{3}u - \frac{4}{3}v\right) = \\ & -u^2 - 2uv + \frac{1}{2}uv + v^2 = \\ & \underline{-u^2 - 1\frac{1}{2}uv + v^2} \end{aligned}$$