

DM Développement - Distributivité

Développer et réduire :

$$\begin{aligned} 1) & 3 - (-2a - 1 + b) - 3(1 - 5b) \\ & = 3 + 2a + 1 - b - 3 + 15b \\ & = \boxed{2a + 14b + 1} \end{aligned}$$

$$\begin{aligned} 2) & 2(t+3)(-t+2) \\ & = 2(-t^2 + 2t - 3t + 6) \\ & = -2t^2 + 4t - 6t + 12 \\ & = \boxed{-2t^2 - 2t + 12} \end{aligned}$$

$$\begin{aligned} 3) & 2 - 3(2-x)(x+1) \\ & = 2 - 3(2x + 2 - x^2 - x) \\ & = 2 - 6x - 6 + 3x^2 + 3x \\ & = \boxed{3x^2 - 3x - 4} \end{aligned}$$

$$\begin{aligned} 4) & 1 - y - (-1 + 2y)(-y + 1) \\ & = 1 - y - (+y - 1 - 2y^2 + 2y) \\ & = 1 - y - y + 1 + 2y^2 - 2y \\ & = \boxed{2y^2 - 4y + 2} \end{aligned}$$