

Potenzen Aufgabe 39

$$\begin{aligned} & \frac{18}{(a-3)^9} + \frac{2a}{(a-3)^8} - \frac{1}{(a-3)^7} = \\ & = \frac{18 + 2a \cdot (a-3) - (a-3)^2}{(a-3)^9} = \\ & = \frac{18 + 2a^2 - 6a - a^2 + 6a - 9}{(a-3)^9} = \frac{\mathbf{a^2 + 9}}{\mathbf{(a-3)^9}} \end{aligned}$$