

Which of the following is the remainder of $3x^3 - 3x^2 + 2x - 1$ divided by $x + 1$

$$\begin{aligned} & \boxed{x + 1} \quad (3)x^3 + (-3)x^2 + (2)x + (-1) \\ & \quad (3x^3) + (3x^2) \\ & \quad \quad + (-6)x^2 + (2)x + (-1) \\ & \quad \quad + (-6x^2) + (-6x) \\ & \quad \quad \quad + (8)x + (-1) \\ & \quad \quad \quad + (8x) + (8) \\ & \quad \quad \quad \quad + (-9) \end{aligned}$$