

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

$$\begin{array}{r}
 + (3x^2) + (-8x) + (19) \\
 \hline
 (3)x^3 + (-2)x^2 + (3)x + (1) \\
 (3x^3) + (6x^2) \\
 + (-8)x^2 + (3)x + (1) \\
 + (-8x^2) + (-16x) \\
 + (19)x + (1) \\
 + (19x) + (38) \\
 + (-37)
 \end{array}$$