

Math Worksheet: Polynomial Division (1)

What is the remainder of the following division?

$$\begin{array}{r}
 x^5 - x^4 - 8x^3 + 12x^2 - x + 3 \\
 \hline
 x^2 - x + 2 \\
 \hline
 x^3 - 10x + 2 \\
 \hline
 x^5 - x^4 - 8x^3 + 12x^2 - x + 3 \\
 \hline
 x^5 - x^4 + 2x^3 \\
 \hline
 -10x^3 + 12x^2 - x + 3 \\
 -10x^3 + 10x^2 - 20x \\
 \hline
 2x^2 + 19x + 3 \\
 2x^2 - 2x + 4 \\
 \hline
 21x - 1
 \end{array}$$

remainder