

5.

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

$$\begin{array}{r}
 + (-2k^2) + (-5k) + (-7) \\
 \hline
 k-2 \quad (-2)k^3 + (-1)k^2 + (3)k + (-2) \\
 + (-2k^3) + (4k^2) \\
 + (-5)k^2 + (3)k + (-2) \\
 + (-5k^2) + (10k) \\
 + (-7)k + (-2) \\
 + (-7k) + (14) \\
 + (-16)
 \end{array}$$