

5.

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

$$\begin{array}{r}
 \phantom{m+1} \phantom{(-3)m^3} \phantom{+(-3)m^2} \phantom{+(2)m} \phantom{+(-2)} + (-3m^2) \phantom{+(2)m} \phantom{+(-2)} + (2) \\
 \hline
 m+1 \quad (-3)m^3 \quad + (-3)m^2 \quad + (2)m \quad + (-2) \\
 \phantom{m+1} \quad (-3m^3) \quad + (-3m^2) \phantom{+(2)m} \phantom{+(-2)} \\
 \phantom{m+1} \phantom{(-3m^3)} \phantom{+(-3m^2)} \phantom{+(2)m} \phantom{+(-2)} + (2)m \quad + (-2) \\
 \phantom{m+1} \phantom{(-3m^3)} \phantom{+(-3m^2)} \phantom{+(2)m} \phantom{+(-2)} + (2m) \quad + (2) \\
 \phantom{m+1} \phantom{(-3m^3)} \phantom{+(-3m^2)} \phantom{+(2)m} \phantom{+(-2)} \phantom{+(2m)} \phantom{+(2)} + (-4)
 \end{array}$$