

4.

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

$$\begin{array}{r}
 \phantom{s + 2} + (\boxed{-s^2}) \phantom{+ (3s)} + (\boxed{-5}) \\
 \hline
 \boxed{s + 2} \quad (-1)s^3 + (1)s^2 + (1)s + (3) \\
 \phantom{s + 2} (\boxed{-s^3}) + (\boxed{-2s^2}) \\
 \phantom{s + 2} + (3)s^2 + (1)s + (3) \\
 \phantom{s + 2} + (\boxed{3s^2}) + (\boxed{6s}) \\
 \phantom{s + 2} \phantom{+ (3s^2)} + (-5)s + (3) \\
 \phantom{s + 2} \phantom{+ (3s^2)} + (\boxed{-5s}) + (\boxed{-10}) \\
 \phantom{s + 2} \phantom{+ (3s^2)} \phantom{+ (-5s)} + (\boxed{13})
 \end{array}$$