

1.

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

$$\begin{array}{r}
 \phantom{y+2} + (3y^2) \phantom{+ (-1)y} + (-6y) \phantom{+ (-3)} + (11) \\
 \hline
 (y+2) \phantom{+ (-1)y} + (3)y^3 \phantom{+ (-6)y^2} + (-1)y \phantom{+ (-3)} + (-3) \\
 \phantom{(y+2)} + (3y^3) \phantom{+ (-6)y^2} + (6y^2) \phantom{+ (-1)y} + (-6)y^2 \phantom{+ (-3)} + (-1)y \phantom{+ (-3)} + (-3) \\
 \phantom{(y+2)} + (-6y^2) \phantom{+ (-1)y} + (-12y) \phantom{+ (-3)} + (11)y \phantom{+ (-3)} + (11y) \phantom{+ (-3)} + (22) \\
 \phantom{(y+2)} \phantom{+ (-1)y} \phantom{+ (-3)} + (-25)
 \end{array}$$