1.

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

$$
\begin{array}{r}
+(h^2) \quad +(-3h) \quad +(11) \\
\hline
h+3 \quad (1)h^3 \qquad\qquad +(2)h \quad +(1) \\
(h^3) \quad +(3h^2) \\
+(-3)h^2 \quad +(2)h \quad +(1) \\
+(-3h^2) \quad +(-9h) \\
+(11)h \quad +(1) \\
+(11h) \quad +(33) \\
+(-32)
\end{array}
$$