Which of the following is the quotient of 
$$-z^3 + z^2 - z + 1$$
 divided by  $z - 3$ 

$$+(\boxed{-z^2}) + (\boxed{-2z}) + (\boxed{-7})$$

$$\begin{bmatrix} z - 3 \end{bmatrix}$$
  $(-1)z^3 + (1)z^2 + (-1)z + (1)$   
 $(-z^3) + (3z^2)$ 

$$+(3z^{2})$$
  
 $+(-2)z^{2}$   $+(-1)z$   $+(1)$ 

$$+ (-1) z + (1)$$
  
  $+ (6 z)$   
  $+ (-7) z + (1)$