1.

Which of the following is the Quotient of $-3g^6 - 3g^5 + 21g^4 + 13g^3 - 43g^2 - 7g + 31$ divided by $(-g-1)(1-g)^2$

$$+(\boxed{3g^3}) \quad +(\boxed{6g^2}) \quad +(\boxed{-12g}) \quad +(\boxed{-22})$$

$(-g-1)(1-g)^2$	$(-3)g^6$	$+(-3)g^5$	$+(21)g^4$	$+(13)g^3$	$+(-43)g^2$	$+(-7)g$	$+(31)$
	$(\boxed{-3g^6})$	$+(\boxed{3g^5})$	$+(\boxed{3g^4})$	$+(\boxed{-3g^3})$			
		$+(-6)g^5$	$+(18)g^4$	$+(16)g^3$	$+(-43)g^2$	$+(-7)g$	$+(31)$
		$+(\boxed{-6g^5})$	$+(\boxed{6g^4})$	$+(\boxed{6g^3})$	$+(\boxed{-6g^2})$		
			$+(12)g^4$	$+(10)g^3$	$+(-37)g^2$	$+(-7)g$	$+(31)$
			$+(\boxed{12g^4})$	$+(\boxed{-12g^3})$	$+(\boxed{-12g^2})$	$+(\boxed{12g})$	
				$+(22)g^3$	$+(-25)g^2$	$+(-19)g$	$+(31)$
				$+(\boxed{22g^3})$	$+(\boxed{-22g^2})$	$+(\boxed{-22g})$	$+(\boxed{22})$
					$+(\boxed{-3g^2})$	$+(\boxed{3g})$	$+(\boxed{9})$

Coefficient list:
{3, 6, -12, -22}