2.

Which of the following is the Quotient of $-3g^6 - 6g^5 + 6g^4 + 10g^3 - 5g^2 - 12g - 2$ divided by $-(1-g)^2 g$

$$+(3g^3) \quad +(12g^2) \quad +(15g) \quad +(8)$$

$-(1-g)^2 g$	$(-3)g^6$	$+(-6)g^5$	$+(6)g^4$	$+(10)g^3$	$+(-5)g^2$	$+(-12)g$	$+(-2)$
	$(-3g^6)$	$+(6g^5)$	$+(-3g^4)$				
		$+(-12)g^5$	$+(9)g^4$	$+(10)g^3$	$+(-5)g^2$	$+(-12)g$	$+(-2)$
		$+(-12g^5)$	$+(24g^4)$	$+(-12g^3)$			
			$+(-15)g^4$	$+(22)g^3$	$+(-5)g^2$	$+(-12)g$	$+(-2)$
			$+(-15g^4)$	$+(30g^3)$	$+(-15g^2)$		
				$+(-8)g^3$	$+(10)g^2$	$+(-12)g$	$+(-2)$
				$+(-8g^3)$	$+(16g^2)$	$+(-8g)$	
					$+(-6g^2)$	$+(-4g)$	$+(-2)$

Coefficient list:
$\{3, 12, 15, 8\}$