

5.

Which of the following is the Quotient of $-3g^6 + 21g^4 - 8g^3 - 36g^2 + 27g + 8$ divided by $(-g - 2)^2(2 - g)$

				$+ (3g^3)$	$+ (-6g^2)$	$+ (3g)$	$+ (2)$
$(-g - 2)^2(2 - g)$	$(-3)g^6$	$+ (21)g^4$	$+ (-8)g^3$	$+ (-36)g^2$	$+ (27)g$	$+ (8)$	
	$(-3g^6)$	$+ (-6g^5)$	$+ (12g^4)$	$+ (24g^3)$			
		$+ (6)g^5$	$+ (9)g^4$	$+ (-32)g^3$	$+ (-36)g^2$	$+ (27)g$	$+ (8)$
		$+ (6g^5)$	$+ (12g^4)$	$+ (-24g^3)$	$+ (-48g^2)$		
			$+ (-3)g^4$	$+ (-8)g^3$	$+ (12)g^2$	$+ (27)g$	$+ (8)$
			$+ (-3g^4)$	$+ (-6g^3)$	$+ (12g^2)$	$+ (24g)$	
				$+ (-2)g^3$		$+ (3)g$	$+ (8)$
				$+ (-2g^3)$	$+ (-4g^2)$	$+ (8g)$	$+ (16)$
				$+ (4g^2)$	$+ (-5g)$	$+ (-8)$	

Coefficient list:

$\{3, -6, 3, 2\}$