

5.

Which of the following is the Quotient of $-3d^6 + 15d^5 - 21d^4 - 5d^3 + 29d^2 - 15d - 1$ divided by $(-d - 1)(1 - d)^2$

				$+(3d^3)$	$+(-12d^2)$	$+(12d)$	$+(2)$
$(-d - 1)(1 - d)^2$	$(-3)d^6$	$+(15)d^5$	$+(-21)d^4$	$+(-5)d^3$	$+(29)d^2$	$+(-15)d$	$+(-1)$
	$(-3d^6)$	$+(3d^5)$	$+(3d^4)$	$+(-3d^3)$			
		$+(12)d^5$	$+(-24)d^4$	$+(-2)d^3$	$+(29)d^2$	$+(-15)d$	$+(-1)$
		$+(12d^5)$	$+(-12d^4)$	$+(-12d^3)$	$+(12d^2)$		
			$+(-12)d^4$	$+(10)d^3$	$+(17)d^2$	$+(-15)d$	$+(-1)$
			$+(-12d^4)$	$+(12d^3)$	$+(12d^2)$	$+(-12d)$	
				$+(-2)d^3$	$+(5)d^2$	$+(-3)d$	$+(-1)$
				$+(-2d^3)$	$+(2d^2)$	$+(2d)$	$+(-2)$
					$+(3d^2)$	$+(-5d)$	$+(1)$

Coefficient list:

$\{3, -12, 12, 2\}$