

1.

Which of the following is the Quotient of  $-3x^6 + 27x^4 - 2x^3 - 72x^2 - 16x + 48$  divided by  $(-x - 2)^2(-x - 1)$

				$+ (3x^3)$	$+ (-15x^2)$	$+ (24x)$	$+ (-10)$
$(-x - 2)^2(-x - 1)$	$(-3)x^6$	$+ (27)x^4$	$+ (-2)x^3$	$+ (-72)x^2$	$+ (-16)x$	$+ (48)$	
	$(-3x^6)$	$+ (-15x^5)$	$+ (-24x^4)$	$+ (-12x^3)$			
		$+ (15)x^5$	$+ (51)x^4$	$+ (10)x^3$	$+ (-72)x^2$	$+ (-16)x$	$+ (48)$
		$+ (15x^5)$	$+ (75x^4)$	$+ (120x^3)$	$+ (60x^2)$		
			$+ (-24)x^4$	$+ (-110)x^3$	$+ (-132)x^2$	$+ (-16)x$	$+ (48)$
			$+ (-24x^4)$	$+ (-120x^3)$	$+ (-192x^2)$	$+ (-96x)$	
				$+ (10)x^3$	$+ (60)x^2$	$+ (80)x$	$+ (48)$
				$+ (10x^3)$	$+ (50x^2)$	$+ (80x)$	$+ (40)$
					$+ (10x^2)$		$+ (8)$

Coefficient list:

$\{3, -15, 24, -10\}$