2.

Which of the following is the Quotient of $-3\,y^6 + 9\,y^5 + 9\,y^4 - 47\,y^3 + 21\,y^2 + 39\,y - 30$ divided by $(-y - 2)\,(1 - y)^2$

$$+\,(\boxed{3\,y^3}) \qquad +\,(\boxed{-9\,y^2}) \qquad\qquad +\,(\boxed{14})$$

$(-y - 2)\,(1 - y)^2$	$(-3)\,y^6$	$+\,(9)\,y^5$	$+\,(9)\,y^4$	$+\,(-47)\,y^3$	$+\,(21)\,y^2$	$+\,(39)\,y$	$+\,(-30)$
	$(\boxed{-3\,y^6})$		$+\,(\boxed{9\,y^4})$	$+\,(\boxed{-6\,y^3})$			
		$+\,(9)\,y^5$		$+\,(-41)\,y^3$	$+\,(21)\,y^2$	$+\,(39)\,y$	$+\,(-30)$
		$+\,(\boxed{9\,y^5})$		$+\,(\boxed{-27\,y^3})$	$+\,(\boxed{18\,y^2})$		
				$+\,(-14)\,y^3$	$+\,(3)\,y^2$	$+\,(39)\,y$	$+\,(-30)$
				$+\,(\boxed{-14\,y^3})$		$+\,(\boxed{42\,y})$	$+\,(\boxed{-28})$
					$+\,(\boxed{3\,y^2})$	$+\,(\boxed{-3\,y})$	$+\,(\boxed{-2})$

Coefficient list:
{3, -9, 0, 14}