

$$\begin{aligned}
& \frac{16z^4(x^4 - 4x^4y^2 + 2x^2y + y^2) - y^{16}(x^4 - 4x^4y^2 + 2x^2y + y^2)}{(2x^2y - x^2 - y)[4z^2(2z + y^4) + y^8(2z + y^4)](2z - y^4)} = \\
& = \frac{(x^4 - 4x^4y^2 + 2x^2y + y^2)(16z^4 - y^{16})}{(2x^2y - x^2 - y)(2z + y^4)(4z^2 + y^8)(2z - y^4)} = \\
& = \frac{(x^4 - 4x^4y^2 + 2x^2y + y^2)(16z^4 - y^{16})}{(2x^2y - x^2 - y)(16z^4 - y^{16})} = \frac{x^4 - 4x^4y^2 + 2x^2y + y^2}{2x^2y - x^2 - y} = \\
& = \frac{(x^2 + y)^2 - (2x^2y)^2}{2x^2y - x^2 - y} = \frac{(x^2 + y - 2x^2y)(x^2 + y + 2x^2y)}{-(x^2 + y - 2x^2y)} = \\
& = -(2x^2y + x^2 + y).
\end{aligned}$$

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