

$$\begin{array}{r} * \quad 32x^6y^{14} - 16x^4y^3 + 4x^3y \\ \hline -4x^3y \end{array}$$

$$\frac{32x^6y^{14}}{-4x^3y} - \frac{16x^4y^3}{-4x^3y} + \frac{4x^3y}{-4x^3y}$$

$$-8x^3y^{13} \quad (-) \quad 4xy^2 \quad (+) \quad (-) \quad 1$$

$$\boxed{-8x^3y^{13} + 4xy^2 - 1}$$