

Algebra /

Multiplying rational expressions involving multivariate quadratics

$$\begin{array}{c}
 \frac{4x-24y}{x^2-4y^2} \cdot \frac{x^2-8xy-20y^2}{x-6y} \\
 \hline
 \frac{4(x-6y)}{(x+2y)(x-2y)} \cdot \frac{(x+2y)(x-10y)}{(x-6y)} \\
 \hline
 \frac{4(x-10y)}{(x-2y)}
 \end{array}$$

~~$\begin{array}{c} -20 \\ +2 \quad -10 \\ -8 \end{array}$~~

$\frac{2}{3} \rightarrow \frac{4}{7} = \frac{8}{21}$
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