

Find the product

$$\frac{x^2 + x - 12}{x + 4} \cdot \frac{8}{6x - 18}$$

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$$\frac{x^2 + x - 12}{x + 4} \cdot \frac{8}{6x - 18} = \frac{\cancel{(x+4)}\cancel{(x-3)} \cdot 8}{\cancel{(x+4)} \cdot 6\cancel{(x-3)}}$$

$$\begin{array}{r} -12 \\ 4 \times -3 \\ \hline 1 \end{array}$$

$$\frac{8}{6} = \boxed{\frac{4}{3}}$$