Multiplying Rational Algebraic Expressions

How to Multiply Rational Algebraic Expressions:

- 1. Factor the numerator and denominator completely.
- 2. Cancel the common factors.
- 3. Multiply the remaining factors.

In symbols,

$$\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}, \ bd \neq 0$$