

Algebra II

Formative Ticket

Multiplying and Dividing Rational Expressions

Find each product and list all excluded values.

$$\frac{7p^2}{4rs} \cdot \frac{20q^2r^3}{21p^2s}$$

$$\frac{x^2 + 12x + 36}{x^3 + 216} \cdot \frac{x^3 - 216}{x^2 - 36}$$

find each quotient and list all excluded values.

$$\frac{x + 10}{10x^2} \div \frac{x^2 - 10x}{x^2 - 100}$$

$$\frac{8x}{x + 6} \div \frac{x^2 - 6x}{x^2 + 3x - 18}$$

$$\frac{x^3 - 27}{3x^2 - 24x + 45} \div \frac{x^2 + 3x + 9}{x^2 - 25}$$