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Rewriting Rational Expressions: Practice

Question 4 of 5

Let P be the set of polynomials. Let a , b , c , and d be elements of P such that b , c , and d are non-zero elements of P . Which of the following is true regarding the quotient below?

$$\frac{a}{b} \div \frac{c}{d}$$

The quotient is a polynomial.

☒ The quotient is a rational expression.

The quotient is a rational number.

The quotient is an integer.

☒ Since a , b , c , and d are polynomials, $\frac{a}{b}$ and $\frac{c}{d}$ are both rational expressions. It is known that rational expressions are closed under division. Therefore, the quotient, $\frac{a}{b} \div \frac{c}{d}$, is a rational expression.

Next Question