Rational operations, integer powers and scientific notation — Further practice

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Further practice 11

Simplify and retain every restriction from the original expression.

$$(\frac{1}{x}-\frac{1}{x+1})(x^2+x)$$

Further practice 12

Simplify and retain every restriction from the original expression.

$$\frac{x+2}{x}-\frac{2}{x}$$

Further practice 13

Write -0.00032 in scientific notation with $1 \le |a| < 10$.

$$-0.00032$$

Further practice 14

Evaluate $(-2/3)^{-2}$.

$$(-2/3)^{-2}$$

Extension 15

Simplify and retain every restriction from the original expression.

$$(\frac{1}{x-1}-\frac{1}{x+1})\div\frac{2}{x^2-1}$$

Extension 16

Calculate 0.0003×0.0002 and express the product in scientific notation.

$$0.0003 \times 0.0002$$