

Simplifying Rational Expressions Puzzle

Name _____ Period _____

$\frac{x^2+4x+3}{x^2+3x+2} \cdot \frac{x^2+2x}{x^2-9}$ <p style="text-align: right;">TSG</p>	$\frac{x^3-4x}{x^2+4x+4} \cdot \frac{3x^2-6x}{x^2-4x+4}$ <p style="text-align: right;">EGI</p>	$\frac{x^2-6x+8}{x^2-2x-3} \cdot \frac{3x+3}{x^2-16}$ <p style="text-align: right;">NDI</p>
$\frac{10x^2+20x}{2x-4} \div \frac{5x+10}{x^3-2x^2}$ <p style="text-align: right;">ONE</p>	$\frac{x+1}{x^2+8x+12} \div \frac{3x^2+4x+1}{x^2-4}$ <p style="text-align: right;">NGA</p>	$\frac{x}{x^2-4x+3} + \frac{5}{x-1}$ <p style="text-align: right;">AGT</p>
$\frac{x-2}{x^2+x-12} + \frac{x}{x^2+5x+4}$ <p style="text-align: right;">OT</p>	$\frac{3}{x+1} - \frac{2}{x-3}$ <p style="text-align: right;">HEB</p>	$\frac{2x}{x+4} - \frac{x^2+4}{x^2-16}$ <p style="text-align: right;">NNI</p>

$\frac{6x-15}{(x-3)(x-1)}$	$\frac{2x^2-4x-2}{(x+4)(x-3)(x+1)}$	$\frac{x-11}{(x+1)(x-3)}$	$\frac{3x^2}{x+2}$	$\frac{x^2-8x-4}{(x+4)(x-4)}$	$\frac{x-2}{(3x+1)(x+6)}$	$\frac{3(x-2)}{(x-3)(x+4)}$	$\frac{x}{x-3}$	x^3

How do you make one vanish?

Add _____!