Simplifying rational expressions meaning





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Rational expressions are simply fractions or relationships of two polynomials. Examples of rational expressions: $\frac{1}{x^2 + 1} \frac{x^2 + 1}{x^2 + 1} \frac{x^2 + 1}{x^2 + 1} \frac{x^2 + 1}{x^2 + 1}$

follows the same rule of whole fractions: $\frac{a}{b}$ to divide, you pass the number and the denominator on the second expression to change it into a multiplication problem. } } the division of rational expressions is very similar to splitting whole fractions. divide: first, flip the polynomials of the second {frac {d} {d}} \$ and \$ {red} {frac {b} \$ D} \$ To obtain a common denominator. It works because both fractions are the same as \$ 1 \$ and multiplying both denominator by multiplying both denominators, and then add the numbers: \$\$ Begin {Align * } frac {1} {2} + frac {1} {2} + frac {1} {3} \$ Using the formula above, we calculate the common denominator by multiplying both denominators, and then add the numbers: \$\$ Begin {Align * } frac {1} {2} + frac {1} {3} \$ {1} {3} & = frac {1 clot 3} {2 clot 3} + frac {1 clot 2} {3 cdot 2} [1ex] & = frac {3} {6} + frac {2} {6} end {align *} \$\$ in general, this Approach works, but it could give us a difficult result to simplify. During the determination of the common denominator, we really want to find the common denominator (LCD), which is the common minimum (LCM) of the denominators. Add: \$ Large Frac {3} {16} + Frac {5} {8} & = frac {24} {128} + frac {5} {8} & = frac {24} {128} + frac {5} {8} & = frac {24} {128} {104} {128} {128} {104} {128} {128} {104} {128} {128} {104} {128} {128} {104} {128} {128} {104} {128} $\{128\}$ $\{104\}$ $\{128\}$ $\{104$ LCD display, we keep the fractions easier, making them easier to add and simplify. Steps to add or subtracted. Simplify / reduce, if possible. Find the LCD: the LCD display, we keep the fractions easier, making them easier to add and simplify / reduce, if possible. Find \$ 16 \$ factors that are not in \$ 8 \$. The only factor in \$ 16 \$ which is not in \$ 8 \$ is a quarter \$ 2 \$. So, the LCD display, so you don't need to be rewrite. \$ \ Big \ frac {5} {8} \$, on the other hand, must be re-written, since its denominator is \$8 \$. Consider the following: \$\$\frac {5} {8}\\\\\\ What 'happened here? We found a fraction of \$ 1 \$, but has a denominator of \$ 2 \$. What requires that the numerator is also \$ 2 \$. We're essentially multiplying \$ \ frac {5} {8} \$ for \$ 1 \$, which does not change the value of the fraction. However, we now have a denominator of \$ 16 \$, the LCD, which is what we wanted! Now that we have both fractions written in terms of LCD, we can perform the addition: $\$ \ begin \{16\} + \frac{10}{16} \ 16\} \ 16$ much smaller numbers, such as \$ 8 and \$ \$ 16, as opposed to \$ 104 and \$ 128 \$. Add: \$ \ Large \ frac {1} {6} + \ frac {4} {9} \$ First, we note that the denominators. Then we can rewrite the fractions: Finding LCM (\$ 6, \$ 9 \$) Number of factorizzazione 6 + 2 + 1 cdot 3 + 2 $\frac{13}{18} + \frac{13}{18} + \frac{1$ Notice that the denominators are not the same, so we can not immediately add fractions, we must first find the LCD. Finding LCM (\$ 12, \$ 15 \$) Number Prime factorization \$ 12 \$, plus the factors to be \$ 15 \$ that are not \$ 12 \$, plus the factors to be \$ 15 \$ that are not \$ 12 \$, plus the factors from \$ 12 Now, we can add fractions: \$\$ Begin {align *} frac {5} {12} + frac {7} {15} & = frac {25} {60} + frac {25} + we find the first factorization of both denominators and join the LCM together as we did with the whole. Let's give an example: Find LCM (x + 1) + The LCM will control all the factors of (x + 1) + The LCM will control all polynomials have only one factor (over \$1\$), and are not equal, then the LCM contains both \$x \$ that \$(x + 1) \$. 2) \$(X + 1) = \$LCM. Finding LCM ($$2x^2 - 8 , $$xx^2 + 4x + 4$ \$) The LCM contains all the factors from \$ $x^2 - 8 , $$xx^2 - 8 , $$xx^2$ know how to find the LCM of two polynomials, we can find the LCD of two rational expressions. This will allow us to add and substrate rational expressions. Add: x + 5, so the LCD is x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + frac $\{2\}$ x + 5 + frac $\{3\}$ x + 5 + fra the LCD is x + 5: (x) Fine {allinea*} \$\$ subtract: \$ \ big \ frac {3} {x + 2} - \ frac {8} {x ^ 2 - 4} \$ The denominators are not the same, so we have to find the LCD display. The first denominator cannot be taken into account, but the second can be considered.

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