Factor this quadratic: $\frac{3R^2 - 192}{3}$ Find the exact solution to this equation: $\frac{5}{6} - \frac{x}{12} + \frac{7x}{3} = (15)$ (0 - x + 28x = 180) $\frac{27x + 10 = 180}{27x = 170}$ $\frac{7}{27}$

 Real #'s

 Rational #'s

 Integers

 Whole #'s

 Natural #'s

Real #'s Rational #'s Any # that an be EX: 8, 3, -- Terminating decimals Irrational #'s .25, Repeating decimals _ - non repeating & Integers non terminating decimals ... -3,-2,-1,0,1,2,3,... ex: O, 1, 2, 3, ... Integers ex: 7, 13, Whole #'s eχ POSITIVE Natural #'s 1,2,3, ... integers eχ

You can eliminate all denominators by multiplying both sides of the equation by the LCM of all denominators.

This is only one of several methods

discussed other related methods in

class.

vou can use to solve this problem. We

Summary

Properties of Real Numbers

Let *a*, *b*, and *c* represent real numbers.

Property	Addition	Multiplication
Closure	a + b is a real number.	<i>ab</i> is a real number.
Commutative	a + b = b + a	ab = ba
Associative	(a+b) + c = a + (b+c)	(ab)c = a(bc)
Identity	a+0=a, 0+a=a	$a \cdot 1 = a, 1 \cdot a = a$
Inverse	a + (-a) = 0	$a \cdot \frac{1}{a} = 1, a \neq 0$
Distributive	a(b+c) = ab + ac	

The Additive Inverse of a number is its OPPOSITE.

The opposite of a number is....

- The same distance from zero but on the other side of zero
- Same # but different sign
- The sum of opposites is always ZERO.

The Multiplicative Inverse of a number is it's RECIPROCAL.

The reciprocal of a number

- Is one over that number
- Has the same sign as that number
- The product of a number and its reciprocal is always ONE.