

MATH 3 COMMON CORE 11TH GRADE

Polynomials - Exponent Properties

Objective: Simplify expressions using the properties of exponents. Problems with exponents can often be simplified using a few basic exponent properties. Exponents represent repeated multiplication. We will use this fact to discover the important properties.

World View Note: The word exponent comes from the Latin "expo" meaning out of and "ponere" meaning place. While there is some debate, it seems that the Babylonians living in Iraq were the first to do work with exponents (dating back to the 23rd century BC or earlier!)

Example 1.

a^3a^2
(aaa)(aa)
 a^5
Expand exponents to multiplication problem
Now we have 5a's being multiplied together
Our Solution

A quicker method to arrive at our answer would have been to just add the exponents: $a^3a^2 = a^{3+2} = a^5$ This is known as the product rule of exponents

Product Rule of Exponents: $a^m a^n = a^{m+n}$

The product rule of exponents can be used to simplify many problems. We will add the exponent on like variables. This is shown in the following examples:

Example 2.

$3^2 \cdot 3^6$
 3^8
Same base, add the exponents $2+6=8$
Our Solution

Example 3.

$2x^2y^3z \cdot 5xy^2z^2$
 $10x^3y^5z^3$
Multiply $2 \cdot 5$, add exponents on x, y and z
Our Solution

Rather than multiplying, we will now try to divide with exponents

Example 4.

a^5 / a^2
aaaaa / aa
aaa
 a^3
Expand exponents
Divide out two of the a's
Convert to exponents
Our Solution

A quicker method to arrive at the solution would have been to just subtract the

exponents, $a^5 / a^2 = a^{5-2} = a^3$. This is known as the quotient rule of exponents.

Quotient Rule of Exponents: $a^m / a^n = a^{m-n}$

The quotient rule of exponents can similarly be used to simplify exponent problems by subtracting exponents on like variables. This is shown in the following examples.

Example 5.

$7^{11} / 7^6$
 7^5
Same base, subtract the exponents
Our Solution

Example 6.

$5a^2b^3c^2 / 2ab^2c$
 $5 / 2a^1b^1c^1$
Subtract exponents on a, b and c
Our Solution

A third property we will look at will have an exponent problem raised to a second exponent. This is investigated in the following example.

Example 7

$(a^2)^3$
 $a^2 \cdot a^2 \cdot a^2$
 a^6
This means we have a^2 three times
Add exponents
Our solution

A quicker method to arrive at the solution would have been to just multiply the exponents, $(a^2)^3 = a^{2 \cdot 3} = a^6$. This is known as the power of a power rule of exponents.

Power of a Power Rule of Exponents: $(a^m)^n = a^{m \cdot n}$

This property is often combined with two other properties which we will investigate now.

Example 8.

$(ab)^3$
 $(ab)(ab)(ab)$
 a^3b^3
This means we have (ab) three times
Three a's and three b's can be written with exponents
Our Solution

A quicker method to arrive at the solution would have been to take the exponent of three and put it on each factor in parenthesis, $(ab)^3 = a^3b^3$. This is known as the power of a product rule of exponents.

Power of a Product Rule of Exponents: $(ab)^m = a^m b^m$



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