Multiplying Powers

To multiply powers with the same base, keep the base the same and add the exponents.

$$a^m \times a^m = a^{m+n}$$

1. Evaluate.

a)
$$3^4 \times 3^5$$

b)
$$7^{-2} \times 7^{4}$$

Dividing Powers

To divide powers with the same base, keep the base the same and subtract the exponents.

$$a^m \div a^n = a^{m-n}$$

2. Evaluate.

Power of a Power

To simplify a power of a power, keep the base the same and multiply the exponents

$$(a^m)^n = a^{m \times n}$$

3. Evaluate.

Zero Exponents

Any base raised to an exponent of zero equals 1.

$$\alpha^0 = 1$$

4. Evaluate.

b)
$$2^2 \times 2^{-2}$$

b)
$$2^2 \times 2^{-2}$$
 c) $4^{-3} \div 4^{-3}$

Negative Exponents

Any base raised to a negative exponent is equal to the reciprocal of the base raised to a positive exponent.

$$\alpha^{-m} = \frac{1}{\alpha^m}$$
 $\frac{1}{\alpha^{-m}} = \alpha^m$

$$\frac{1}{a^{-m}} = \alpha^{m}$$

Evaluate.

Simplifying Expressions

Simplify.

a)
$$4^3 \times 4^4 \times 4^{-2}$$
 b) $(2^3 \times 2^2) \div 2^7$

b)
$$(2^3 \times 2^2) \div 2^7$$

c)
$$(5^2 \times 5^4)^6$$
 d) $(2^6 \div 2^8)^3$

d)
$$(2^6 \div 2^8)^3$$

$$0.538^{\circ}$$

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