

7.9

Negative Exponents

Review

Simplify:

1) $\frac{x^9}{x^3}$

2) $\frac{x^3}{x^9}$

3) $\frac{x^3}{x^3}$

Evaluate:

4) 5^0

5) $\frac{1}{5^2}$

6) $\left(\frac{1}{3^2}\right)^3$

7) $\frac{2^3}{2^6}$

Meaning of Negative Exponent

Evaluate:

1) $5^{-2} = \frac{1}{5^2}$

Get rid of the negative by putting it under 1 !!!

Meaning of Negative Exponent

Evaluate:

2) 10^{-3}

3) 3^{-4}

4) $5^7 \cdot 5^{-9}$

5) $\frac{6}{6^{-2}}$

6) $(12^{-1})^{-2}$

Meaning of Negative Exponent

Evaluate:

$$7) \frac{8^3 \bullet 8^{-2}}{8^4}$$

$$8) \left(\frac{5^0 \bullet 2}{2^{-2}} \right)^{-4}$$

Meaning of Negative Exponent

Evaluate:

$$9) (3x^{-1})^2$$

$$10) (4 \bullet 3)^{-2}$$

$$11) 4 \bullet 3^{-2}$$

Meaning of Negative Exponent

Evaluate:

$$12) \frac{8^3 \bullet 8^{-2}}{8^4}$$

$$13) \left(\frac{5^0 \bullet 2}{2^{-2}} \right)^{-4}$$

Meaning of Negative Exponent

Evaluate:

$$14) a^{-1}b^2$$

$$15) \frac{c^{-2}}{d^{-3}}$$