

27 Jan '26

$$a^0 = a^{m-m} = \frac{a^m}{a^m} = 1 \quad (\text{only if } a \neq 0)$$

If $a = 0$:

(say $m \in \mathbb{N}$)

$$0^0 = 0^{m-m} = \frac{0^m}{0^m} = \frac{0}{0}$$

= not defined

$$0 \times 1 = 0 \Rightarrow \frac{0}{0} = 1 ?$$

$$0 \times 2 = 0 \Rightarrow \frac{0}{0} = 2 ?$$

$$0 \times 3 = 0 \Rightarrow \frac{0}{0} = 3 ?$$

→ Checked previous HUs

→ Created AI word problems

HW: Correct and solve these problems

HW: Check the document on large Roman numerals

HW: Complete the code for Roman numeral conversion