

ANY NUMBER TO THE POWER OF 0 IS 1

LET x BE ANY NUMBER,
0 CAN BE WRITTEN AS $1 - 1$,

$$\begin{aligned}x^0 &= x^{1-1} \\&= x^1 \times x^{-1} \\&= x \times \frac{1}{x} \\&= \frac{\cancel{x}}{\cancel{x}} \\&= 1\end{aligned}$$

$$\therefore \boxed{x^0 = 1}$$