

Are 7^0 and b^0 equivalent? Explain your reasoning?

Example 2

Student A and Student B each solved the given expression. Who solved it correctly, and what mistake did the other student make?

$$\frac{3^2 \cdot 3^5}{3^3} + 2^4 \cdot 2^2$$

Student A

$$\begin{aligned} \frac{3^7}{3^3} + 2^6 \\ 3^4 + 2^6 \\ 81 + 64 \\ \hline 145 \end{aligned}$$

Student B

$$\begin{aligned} \frac{3^2}{3^3} + 2^6 \\ 3^4 + 2^6 \\ 5^{10} \\ 50 \end{aligned}$$