



Questions?
Ask a live tutor now!

Ask Question 

Question
Simplify $(25^{23})^{10}$

Answer

$$(25^{23})^{10}$$
$$25^{23 \times 10}$$
$$25^{230}$$

8. Exponents

[Exponentials](#)

[Property of multiplication](#)

[Property of division](#)

[Property of exponentiation](#)

[Scientific notation](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question

Simplify $[(13^{14})^{65}]^2$

Question

Answer

$$\begin{aligned}
 & [(13^{14})^{65}]^2 \\
 & (13^{14 \times 65})^2 \\
 & 13^{910 \times 2} \\
 & \boxed{13^{1820}}
 \end{aligned}$$

8. Exponents

[Exponentials](#)

[Property of multiplication](#)

[Property of division](#)

[Property of exponentiation](#)

[Scientific notation](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Question
Simplify $(17^{45})^{-10}$

Answer

$$(17^{45})^{-10}$$

$$17^{45 \times -10}$$

$$17^{-450}$$

8. Exponents

[Exponentials](#)

[Property of multiplication](#)

[Property of division](#)

[Property of exponentiation](#)

[Scientific notation](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Simplify $(1^{-23})^{13}$

Question

Answer

$$(1^{-23})^{13}$$
$$1^{-23 \times 13}$$
$$1^{-299}$$
$$1$$

8. Exponents

[Exponentials](#)

[Property of multiplication](#)

[Property of division](#)

[Property of exponentiation](#)

[Scientific notation](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Simplify $(77^{31})^1$

Question

Answer

$$\begin{array}{l} (77^{31})^1 \\ \swarrow \quad \downarrow \quad \searrow \\ 77^{31} \times 1 \\ \swarrow \quad \downarrow \\ \boxed{77^{31}} \end{array}$$

8. Exponents

[Exponentials](#)

[Property of multiplication](#)

[Property of division](#)

[Property of exponentiation](#)

[Scientific notation](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Simplify $(111^{37})^0$

Question

Answer

$$\begin{aligned} &(111^{37})^0 \\ &111^{37 \times 0} \\ &111^0 \\ &1 \end{aligned}$$

8. Exponents

[Exponentials](#)

[Property of multiplication](#)

[Property of division](#)

[Property of exponentiation](#)

[Scientific notation](#)

[Table of Contents](#)