Quizz 1

Effectuer les calculs suivants. La réponse **ne doit pas** contenir de puissances négatives.

Poser les stylos!

Question 1

$$(a^{-2})^3$$

Question 1

$$(a^{-2})^3$$

Noter la réponse

Poser les stylos!

Question 2

$$\frac{3^{17}}{3^{19}}$$

Question 2

$$\frac{3^{17}}{3^{19}}$$

Noter la réponse

Poser les stylos!

Question 3

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

Question 3

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

Noter la réponse

Poser les stylos!

Question 4

$$2^6 \cdot 5^6$$

Question 4

$$2^6 \cdot 5^6$$

Noter la réponse

Poser les stylos!

Question 5

$$\left(-\frac{a^2}{b^3}\right)^{-2}$$

Question 5

$$\left(-\frac{a^2}{b^3}\right)^{-2}$$

Noter la réponse

Solutions

Solutions

1. $(a^{-2})^3$

Solutions

1. $(a^{-2})^3 = a^{-6}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

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Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

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3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6 = 10^6$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6 = 10^6 = \boxed{1'000'000}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6 = 10^6 = \boxed{1'000'000}$

5. $\left(-\dfrac{a^2}{b^3}\right)^{-2}$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6 = 10^6 = \boxed{1'000'000}$

5. $\left(-\dfrac{a^2}{b^3}\right)^{-2} = \left(-\dfrac{b^3}{a^2}\right)^2$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6 = 10^6 = \boxed{1'000'000}$

5. $\left(-\dfrac{a^2}{b^3}\right)^{-2} = \left(-\dfrac{b^3}{a^2}\right)^2 = \left(-\dfrac{b^3}{a^2}\right)^2$

Solutions

1. $(a^{-2})^3 = a^{-6} = \boxed{\dfrac{1}{a^6}}$

2. $\dfrac{3^{17}}{3^{19}} = 3^{17-19} = 3^{-2} = \dfrac{1}{3^2} = \boxed{\dfrac{1}{9}}$

3. $\left(\dfrac{1}{2^{-3}}\right)^{-1} = \dfrac{2^{-3}}{1} = 2^{-3} = \dfrac{1}{2^3} = \boxed{\dfrac{1}{8}}$

4. $2^6 \cdot 5^6 = (2 \cdot 5)^6 = 10^6 = \boxed{1'000'000}$

5. $\left(-\dfrac{a^2}{b^3}\right)^{-2} = \left(-\dfrac{b^3}{a^2}\right)^2 = \left(-\dfrac{b^3}{a^2}\right)^2 = \boxed{\dfrac{b^6}{a^4}}$