



Exponents - Power Law with Prime Base (Negatives, Exponent with Power to Fraction with Power)

1 Find the answer when these terms are multiplied

$$5^{-3} \cdot 5^{-3} \cdot 5^{-3} \cdot 5^{-3}$$

- | | | | | |
|-----------------|---------|-------------------------|----------------------|----------------------|
| A $\frac{1}{5}$ | B 5^0 | C $\frac{1}{5^{1,200}}$ | D $\frac{1}{5^{12}}$ | E $\frac{1}{5^{10}}$ |
|-----------------|---------|-------------------------|----------------------|----------------------|

2 Find the answer when these terms are multiplied

$$3^{-1} \cdot 3^{-1} \cdot 3^{-1}$$

- | | | | |
|-------------------|-------------------|-----------------------|---------|
| A $\frac{1}{3^2}$ | B $\frac{1}{3^3}$ | C $\frac{1}{3^{300}}$ | D 3^2 |
|-------------------|-------------------|-----------------------|---------|

3 Find the answer when these terms are multiplied

$$3^{-3} \cdot 3^{-3} \cdot 3^{-3}$$

- | | | | | |
|-------------------|-----------------------|----------------------|----------------------|---------|
| A $\frac{1}{3^9}$ | B $\frac{1}{3^{900}}$ | C $\frac{1}{3^{10}}$ | D $\frac{1}{3^{90}}$ | E 3^0 |
|-------------------|-----------------------|----------------------|----------------------|---------|

4 Find the answer when these terms are multiplied

$$7^{-1} \cdot 7^{-1}$$

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|-----------------|-------|-------------------|
| A $\frac{1}{7}$ | B 7 | C $\frac{1}{7^2}$ |
| D 7^0 | | |

5 Find the answer when these terms are multiplied

$$5^{-2} \cdot 5^{-2}$$

- | | | |
|-------------------|-------------------|-----------------------|
| A 5^0 | B $\frac{1}{5^3}$ | C $\frac{1}{5^{400}}$ |
| D $\frac{1}{5^4}$ | | |

6 Find the answer when these terms are multiplied

$$7^{-1} \cdot 7^{-1} \cdot 7^{-1} \cdot 7^{-1}$$

- | | | | | |
|-------------------|-------------------|----------------------|---------|-------|
| A $\frac{1}{7^4}$ | B $\frac{1}{7^3}$ | C $\frac{1}{7^{40}}$ | D 7^3 | E 1 |
|-------------------|-------------------|----------------------|---------|-------|

7 Find the answer when these terms are multiplied

$$2^{-3} \cdot 2^{-3} \cdot 2^{-3} \cdot 2^{-3}$$

- | | | | | |
|---------|-------------------------|----------------------|-----------------|-------------------|
| A 2^0 | B $\frac{1}{2^{1,200}}$ | C $\frac{1}{2^{12}}$ | D $\frac{1}{2}$ | E $\frac{1}{2^9}$ |
|---------|-------------------------|----------------------|-----------------|-------------------|

8 Find the answer when these terms are multiplied

$$7^{-2} \cdot 7^{-2} \cdot 7^{-2} \cdot 7^{-2}$$

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|-------------------|-------------------|-------------------|-------|
| A $\frac{1}{7^8}$ | B $\frac{1}{7^7}$ | C $\frac{1}{7^6}$ | D 1 |
|-------------------|-------------------|-------------------|-------|