



Apply the power-of-a-power rule

1

Find the answer when this term is raised to its exponent

$$(x^5)^2$$

A	x^0	B	x^9
C	x^8	D	$x^{1,000}$
E	x^{10}		

2

Find the answer when this term is raised to its exponent

$$(5^4)^2$$

A	5^8	B	5^{800}
C	5^7	D	5^0

3

Find the answer when this term is raised to its exponent

$$(77^4)^3$$

A	$77^{1,200}$	B	77^{12}
C	77^9	D	77^{10}

4

Find the answer when this term is raised to its exponent

$$(z^5)^2$$

A	z^9	B	z^{11}
C	z^8	D	z^{10}

5

Find the answer when this term is raised to its exponent

$$(5^3)^4$$

A	5^{11}	B	5^{12}
C	$5^{1,200}$	D	5

6

Find the answer when this term is raised to its exponent

$$(22^5)^3$$

A	22^{17}	B	22^{16}
C	22	D	22^{15}
E	22^{150}		

7

Find the answer when this term is raised to its exponent

$$(z^3)^2$$

A	z^{60}	B	z^6	C	z^5
D	z^0	E	z^{600}		

8

Find the answer when this term is raised to its exponent

$$(11^5)^3$$

A	11^{15}	B	11^8
C	$11^{1,500}$	D	11^{13}



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9

Find the answer when this term is raised to its exponent

$$(21^2)^4$$

A

$$21^9$$

B

$$21^8$$

C

$$21^{800}$$

D

$$21^6$$

10

Find the answer when this term is raised to its exponent

$$(x^5)^3$$

A

$$x^{14}$$

B

$$x^8$$

C

$$x^{15}$$

D

$$x^{150}$$

11

Find the answer when this term is raised to its exponent

$$(7^5)^3$$

A

$$7^{12}$$

B

$$7^{15}$$

C

$$7^{17}$$

D

$$7^8$$

E

$$7$$

12

Find the answer when this term is raised to its exponent

$$(10^2)^2$$

A

$$10^{40}$$

B

$$10^3$$

C

$$10^4$$