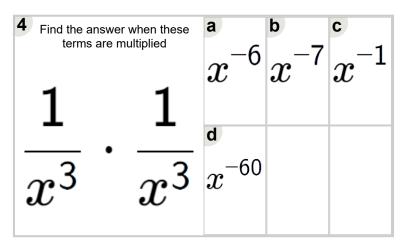# mobius

Math worksheet on *'Exponents - Power Law with Variable Base (Negatives, Fraction with Power to Exponent) (Level 1)'*. Part of a broader unit on *'Exponents - Multiplication and Division - Advanced'*

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1 Find the answer when these terms are multiplied

$$\frac{1}{r^5} \cdot \frac{1}{r^5} \cdot \frac{1}{r^5} \cdot \frac{1}{r^5} \cdot \frac{1}{r^5} \cdot \frac{1}{r^5}$$

a	b	c	d
r	r^{-300}	r^{-30}	r^{-28}

2 Find the answer when these terms are multiplied

$$\frac{1}{b^3} \cdot \frac{1}{b^3} \cdot \frac{1}{b^3} \cdot \frac{1}{b^3} \cdot \frac{1}{b^3} \cdot \frac{1}{b^3}$$

a	b	c
b^3	b^{-18}	b^{-15}

3 Find the answer when these terms are multiplied

$$\frac{1}{p^5} \cdot \frac{1}{p^5} \cdot \frac{1}{p^5} \cdot \frac{1}{p^5} \cdot \frac{1}{p^5}$$

a	b	c	d	e
p^{-29}	p^{-21}	p^{-28}	p^{-25}	p^0

4 Find the answer when these terms are multiplied

$$\frac{1}{x^3} \cdot \frac{1}{x^3}$$

a	b	c
x^{-6}	x^{-7}	x^{-1}
d		
x^{-60}		

5 Find the answer when these terms are multiplied

$$\frac{1}{x^4} \cdot \frac{1}{x^4} \cdot \frac{1}{x^4} \cdot \frac{1}{x^4}$$

a	b	c	d	e
x^0	x^{-1}	x^{-15}	x^{-14}	x^{-16}

6 Find the answer when these terms are multiplied

$$\frac{1}{d^2} \cdot \frac{1}{d^2} \cdot \frac{1}{d^2} \cdot \frac{1}{d^2} \cdot \frac{1}{d^2} \cdot \frac{1}{d^2}$$

a	b	c	d
d^{-10}	d^{-1}	d^{-12}	d^4

7 Find the answer when these terms are multiplied

$$\frac{1}{b^4} \cdot \frac{1}{b^4}$$

a	b	c
b^0	b^{-8}	b^{-2}
d		
b^{-80}		