



Exponents - Power Law - Composite Base with Variable Power to Composite

Base with Unknown Power

<p>1 Solve for the missing exponent (x) in reduced form</p> $32^n = 8^x$ <p>A $x = 5n$ B $x = \frac{2}{3n}$ C $x = \frac{6}{5n}$ D $x = \frac{5n}{3}$ E $x = \frac{5}{10n}$ F $x = 6n$</p>	<p>2 Solve for the missing exponent (x) in reduced form</p> $4^n = 8^x$ <p>A $x = \frac{6n}{3}$ B $x = \frac{9}{2n}$ C $x = \frac{9n}{2}$</p> <p>D $x = \frac{2n}{3}$ E $x = \frac{2n}{6}$ F $x = 3n$</p>
<p>3 Solve for the missing exponent (x) in reduced form</p> $27^n = 81^x$ <p>A $x = \frac{8}{3n}$ B $x = \frac{3}{6n}$ C $x = \frac{3n}{4}$ D $x = 4n$ E $x = 8n$ F $x = \frac{6n}{4}$</p>	<p>4 Solve for the missing exponent (x) in reduced form</p> $8^n = 16^x$ <p>A $x = \frac{2n}{4}$ B $x = \frac{3n}{4}$ C $x = \frac{9n}{4}$ D $x = 4n$ E $x = 5n$ F $x = \frac{12n}{3}$</p>
<p>5 Solve for the missing exponent (x) in reduced form</p> $16^n = 64^x$ <p>A $x = \frac{4n}{3}$ B $x = \frac{6}{2n}$ C $x = \frac{2n}{4}$ D $x = 9n$ E $x = \frac{2n}{3}$ F $x = 6n$</p>	<p>6 Solve for the missing exponent (x) in reduced form</p> $81^n = 27^x$ <p>A $x = 7n$ B $x = \frac{6n}{4}$ C $x = \frac{3}{3n}$ D $x = \frac{4n}{3}$ E $x = \frac{6}{4n}$ F $x = \frac{4}{8n}$</p>
<p>7 Solve for the missing exponent (x) in reduced form</p> $27^n = 9^x$ <p>A $x = 2n$ B $x = \frac{6n}{3}$ C $x = \frac{3n}{2}$ D $x = 8n$ E $x = 6n$ F $x = \frac{6}{3n}$</p>	<p>8 Solve for the missing exponent (x) in reduced form</p> $4^n = 32^x$ <p>A $x = \frac{4n}{5}$ B $x = 15n$</p> <p>C $x = 4n$ D $x = \frac{2}{4n}$</p> <p>E $x = \frac{10}{2n}$ F $x = \frac{2n}{5}$</p>