

mobius

Algebra with Exponents - Binomial and **Monomial**



Simplify and solve for t

$${f 5}^{(t+3)} = {f 25}^t_{_{ovemlet}}$$

$$\overset{\scriptscriptstyle{ ext{ iny b}}}{t}=3\overset{\scriptscriptstyle{ ext{ iny b}}}{t}=5$$

2

4

Simplify and solve for t

$$6^{(t+4)} = 216^t$$

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$$t = 2t = 4$$

3

Simplify and solve for p

$$\mathbf{9}^{(x-3)} = \mathbf{81}^x$$
 B $\mathbf{2}^{(p-6)} = \mathbf{16}^p$ B $\mathbf{2}^{(p-6)} = \mathbf{26}^p$ B $\mathbf{2}^{(p-6)} = \mathbf{26$

$$\stackrel{ extsf{A}}{x}=-4\stackrel{ extsf{B}}{x}=-3$$

$$2^{(p-6)} = 16^p$$

$$p = -2p = -3$$

5

Simplify and solve for q

Simplify and solve for q

$${f 9}^{(q+8)}={f 81}^q_{_{f A}}$$

$$\overset{\scriptscriptstyle\mathsf{A}}{q}=\mathsf{10}\overset{\scriptscriptstyle\mathsf{B}}{q}=\mathsf{8}$$

$${\sf 5}^{(q extsf{-8})} = {\sf 25}^q$$
 A

$$\begin{vmatrix} \mathbf{a} & \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{q} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} \mathbf{q} = -\mathbf{8}$$

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Simplify and solve for x

Simplify and solve for p

$$\mathbf{4}^{(x+3)} = \mathbf{16}^{x}$$

$$\overset{\scriptscriptstyle{\mathsf{A}}}{x}=\mathsf{3}\overset{\scriptscriptstyle{\mathsf{B}}}{x}=\mathsf{4}$$

$${\sf 5}^{(p{ ext{-}6})} = {\sf 25}^p_{_{oxdot}}$$

$$p=$$
 –5 $p=$ –6

8