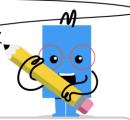


mobius

Algebra with Exponents - Binomial and Constant

2



Simplify and solve for x

$$2^{(6x-9)}=8$$

Simplify and solve for p

$$3^{(6p+8)} = 9$$

$$\stackrel{\scriptscriptstyle{\mathsf{A}}}{x}=3\stackrel{\scriptscriptstyle{\mathsf{B}}}{x}=4\stackrel{\scriptscriptstyle{\mathsf{C}}}{x}=1\stackrel{\scriptscriptstyle{\mathsf{B}}}{x}=2\stackrel{\scriptscriptstyle{\mathsf{A}}}{p}=1\stackrel{\scriptscriptstyle{\mathsf{B}}}{p}=-2\stackrel{\scriptscriptstyle{\mathsf{C}}}{p}=-1\stackrel{\scriptscriptstyle{\mathsf{B}}}{p}=0$$

4

3 Simplify and solve for t

$$6^{(2t-4)}=36$$

Simplify and solve for w

$$6^{(5w+7)}=36$$

$$|t-t|^{rac{1}{2}}=4|t-3|^{rac{1}{2}}=5|t-2|^{rac{1}{2}}=2|w-0|^{rac{1}{2}}=-2|w-1|^{rac{1}{2}}=-1$$

6

5 Simplify and solve for y

$$3^{(5y-8)}=9$$

Simplify and solve for y

$$2^{(7y-4)}=8$$

$$|y| = 2|y| = 3|y| = 1|y| = 4|y| = 2|y| = 1|y| = 3|y|$$

8

7 Simplify and solve for y

$$4^{(5y+7)} = 16$$

Simplify and solve for x

$$8^{(2x+6)}=64$$

$$\begin{vmatrix} \mathbf{x} \\ \mathbf{y} = -2 \end{vmatrix} \mathbf{y} = \mathbf{1} \begin{vmatrix} \mathbf{x} \\ \mathbf{y} = -1 \end{vmatrix} \mathbf{y} = \mathbf{0} \begin{vmatrix} \mathbf{x} \\ \mathbf{x} = \mathbf{0} \end{vmatrix} \mathbf{x} = \mathbf{0} \begin{vmatrix} \mathbf{x} \\ \mathbf{x} = -2 \end{vmatrix} \mathbf{x} = -3 \begin{vmatrix} \mathbf{x} \\ \mathbf{x} = -1 \end{vmatrix}$$