

3

## mobius

## Algebra with Exponents - Binomial over Monomial and Constant



Simplify and solve for m

$$3^{\left(\frac{5m+63}{7m}\right)}=9$$

Simplify and solve for x

$$7^{(\frac{5x+18}{2x})}=49$$

$$\stackrel{\scriptscriptstyle{\mathsf{A}}}{m}=8\stackrel{\scriptscriptstyle{\mathsf{B}}}{m}=7\stackrel{\scriptscriptstyle{\mathsf{C}}}{m}=6\stackrel{\scriptscriptstyle{\mathsf{D}}}{m}=9$$

Simplify and solve for n

$$8^{(\frac{7n+27}{5n})}=64$$

Simplify and solve for m

$$6^{(\frac{4m+56}{6m})}=216$$

$$|\hat{n}| = 10 |\hat{n}| = 8 |\hat{n}| = 9 |\hat{n}| = 11 |\hat{m}| = 4 |\hat{m}| = 5 |\hat{m}| = 3 |\hat{m}| = 6$$

6

4

5 Simplify and solve for z

$$3^{\left(\frac{9z+20}{4z}\right)}=9$$

Simplify and solve for z

$$6^{(\frac{9z+18}{4z})}=216$$

$$|z|^{3} = -19|z|^{2} = -18|z|^{2} = -21|z|^{2} = -20|z|^{3} = 7|z|^{2} = 6|z|^{2} = 8|z|^{2} = 5$$

8

7 Simplify and solve for x

$$3^{(\frac{2x+36}{5x})}=81$$

Simplify and solve for z

$$4^{(\frac{7z+36}{4z})}=16$$

$$|x| = 2|x| = 4|x| = 3|x| = 1|z| = 37|z| = 35|z| = 38|z| = 36$$