



## Algebra with Exponents - Binomial over Binomial and Constant



1

Simplify and solve for y

$$2^{\left(\frac{7y-9}{4y-8}\right)} = 8$$

A

$$y = 5$$

B

$$y = 3$$

C

$$y = 4$$

D

$$y = 2$$

2

Simplify and solve for t

$$5^{\left(\frac{5t+6}{3t-4}\right)} = 25$$

A

$$t = 14$$

B

$$t = 16$$

C

$$t = 15$$

D

$$t = 13$$

3

Simplify and solve for m

$$2^{\left(\frac{3m-8}{9m-2}\right)} = 16$$

A

$$m = 0$$

B

$$m = 2$$

C

$$m = 1$$

D

$$m = -1$$

4

Simplify and solve for y

$$3^{\left(\frac{4y+8}{8y-2}\right)} = 9$$

A

$$y = 0$$

B

$$y = 3$$

C

$$y = 2$$

D

$$y = 1$$

5

Simplify and solve for m

$$5^{\left(\frac{7m+9}{2m-3}\right)} = 25$$

A

$$m = -5$$

B

$$m = -4$$

C

$$m = -3$$

D

$$m = -6$$

6

Simplify and solve for p

$$2^{\left(\frac{5p+7}{8p-5}\right)} = 16$$

A

$$p = 0$$

B

$$p = 1$$

C

$$p = 3$$

D

$$p = 2$$

7

Simplify and solve for x

$$4^{\left(\frac{7x-6}{4x-9}\right)} = 16$$

A

$$x = 11$$

B

$$x = 14$$

C

$$x = 13$$

D

$$x = 12$$

8

Simplify and solve for q

$$3^{\left(\frac{7q-4}{5q-8}\right)} = 9$$

A

$$q = 4$$

B

$$q = 3$$

C

$$q = 6$$

D

$$q = 5$$