mobius

Logarithms - Solve Exponent Equation (From Decimals)

1 Use a logarithm to solve for the missing exponent

$$10^x = 10,000$$

A	B	C	D	E
x = 4	x = 3	x = 2	x = 6	x = 5

2 Use a logarithm to solve for the missing exponent

$$8^x = 11,585.24$$

A		B	
	x = 5.5		x = 6.5
C	x = 4.5	D	x = 2.5
E	x = 3.5		

3 Use a logarithm to solve for the missing exponent

$$6^x = 216$$

A	B	C	D	E
x = 5	x = 3	x = 4	x = 1	x = 2

4 Use a logarithm to solve for the missing exponent

$$4^x = 64$$

A	B	C
x = 5	x = 1	x = 3
D	E	
x = 2	x = 4	

5 Use a logarithm to solve for the missing exponent

$$5^x = 106.42$$

A		B	
	x = 1.9		x = 4.9
C	x = 3.9	D	x = 0.9
E	x = 2.9		

6 Use a logarithm to solve for the missing exponent

$$3^x = 217.72$$

A		B	
	x = 2.9		x = 3.9
C	x = 5.9	D	x = 6.9
E	x = 4.9		

7 Use a logarithm to solve for the missing exponent

$$8^x = 222.86$$

A		B	
	x = 1.6		x = 2.6
C	x = 4.6	D	x = 3.6
E	x = 0.6		

8 Use a logarithm to solve for the missing exponent

$$2^x = 11.31$$

A		B	
	x = 3.5		x = 1.5
C	x = 5.5	D	x = 4.5
E	x = 2.5		