

Please write in
Exponential Form

$$\log_2 8 = 3$$

Please write in
Exponential Form

$$\log_2 8 = 3$$

$$2^3 = 8$$

Please write in
Exponential Form

$$\log_8 64 = 2$$

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Exponential Form

$$\log_8 64 = 2$$

$$8^2 = 64$$

Please write in
Exponential Form

$$\log_{81} 9 = 1/2$$

Please write in
Exponential Form

$$\log_{81} 9 = 1/2$$

$$81^{1/2} = 9$$

Please write in
Exponential Form

$$\log_3(1/9) = -2$$

Please write in
Exponential Form

$$\log_3(1/9) = -2$$

$$3^{-2} = 1/9$$

Please write in
Logarithmic Form

$$8^2 = 64$$

Please write in
Logarithmic Form

$$8^2 = 64$$

$$\log_8 64 = 2$$

Read: Log base 8 to get 64 is 2.

Please write in
Logarithmic Form

$$4^{-3} = 1/64$$

Please write in
Logarithmic Form

$$4^{-3} = 1/64$$

$$\log_4(1/64) = -3$$

Read: Log base 4 to get 1/64 is negative 3.

Write as a Single Log

$$\log_2 X + \log_2 6$$

Write as a Single Log

$$\log_2 X + \log_2 6$$

$$\log_2 6X$$

Write as a Single Log

$$\log_6 y^6 - \log_6 y^4$$

Write as a Single Log

$$\log_6 y^6 - \log_6 y^4$$

$$\log_6 \frac{y^6}{y^4}$$

$$\log_6 y^2$$

Please Evaluate

$$\log_{81} 9$$

Please Evaluate

$$\log_{81} 9$$

$$81^x = 9$$

$$x = 1/2$$

Please Evaluate

$$\log_2 32$$

Please Evaluate

$$\log_2 32$$

$$2^x = 32$$

$$x = 5$$

Please Evaluate

$$\log_5 125$$

Please Evaluate

$$\log_5 125$$

$$5^x = 125$$

$$x = 3$$

Please Evaluate

$$\log_3(1/27)$$

Please Evaluate

$$\log_3(1/27)$$

$$3^x = 1/27$$

$$x = -3$$

Please Evaluate

$$\log_4(1/16)$$

Please Evaluate

$$\log_4(1/16)$$

$$4^x = 1/16$$

$$x = -2$$

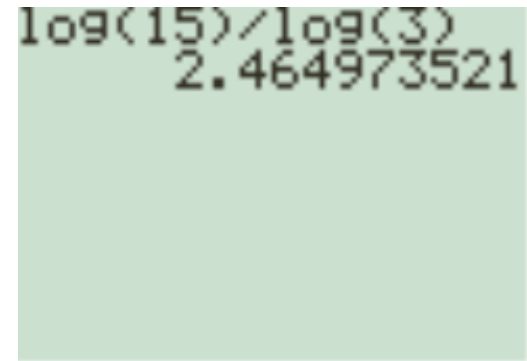
Please set up the change of base
that you would do on your calculator.

$$\log_3 15$$

Please set up the change of base that you would do on your calculator.

$$\log_3 15$$

$$\frac{\log 15}{\log 3}$$



log(15)/log(3)
2.464973521

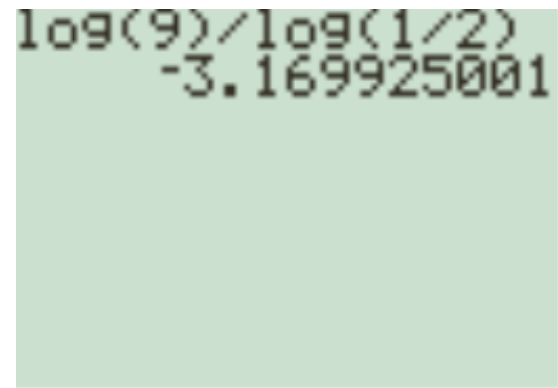
Please set up the change of base
that you would do on your calculator.

$$\log_{\frac{1}{2}} 9$$

Please set up the change of base that you would do on your calculator.

$$\log_{1/2} 9$$

$$\frac{\log 9}{\log 1/2}$$



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log(9)/log(1/2)  
-3.169925001
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Please evaluate the following.

$$\log_3 243$$

Please evaluate the following.

$$\log_3 243$$

$$3^x = 243$$

$$x = 5$$