

## Change of Base Rule in Logarithms

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A) Find the value of each logarithm using a calculator. Round your answer to two decimal places.

1)  $\log_6 2.5 =$  \_\_\_\_\_

2)  $\log_3 4 =$  \_\_\_\_\_

3)  $\log_2 5 =$  \_\_\_\_\_

4)  $\log_8 2 =$  \_\_\_\_\_

5)  $\log_9 6 =$  \_\_\_\_\_

6)  $\log_4 9 =$  \_\_\_\_\_

B) Find the value of each logarithmic expression using a calculator. Round your answer to two decimal places.

1)  $\log_8 4 + \log_4 8$

2)  $\log_2 7 \cdot \log_6 9$

3)  $\frac{\log_5 3}{\log_9 3}$

4)  $\log_7 8 - \log_3 5$

5)  $\log_4 6 + \log_3 11$

6)  $\frac{\log_8 2}{\log_2 6}$