

С

 $\log_9 5 + \log_9 2$ 

## mobius

## **Logarithms - Product Property - Product** to Sum (Integer Multiplication)



1	Convert the given logarithm to its equivalent based on	
	the product property	

 $\log_{-}(9\cdot 2)$ 

Convert the given logarithm to its equivalent based on the product property

 $\log_{8}(3\cdot 9)$ 

	.005		.008		
А	$\log_2 9 + \log_2 5$	В	$\log_9 2 + \log_9 5$	А	$\log_3 8 + \log_3 9$

 $\log_5 9 + \log_5 2$ 

 $\log_9 3 + \log_9 8$  $\log_8 3 + \log_8 9$  $\log_8 11 + \log_8 7$ 

3 Convert the given logarithm to its equivalent based on 4 the product property

С

Convert the given logarithm to its equivalent based on the product property

 $\log_5(4\cdot6)$ 

 $\log_9(7\cdot 3)$ 

Α	$\log_4 5 + \log_4 6$	В	$\log_5 4 + \log_5 6$	Α	$\log_9 7 + \log_9 3$	В	$\log_7 9 + \log_7 3$
С	$\log_4 6 + \log_4 5$	D	$\log_6 4 + \log_6 5$	С	$\log_9 6 + \log_9 11$	D	$\log_7 3 + \log_7 9$

5 Convert the given logarithm to its equivalent based on 6 the product property

Convert the given logarithm to its equivalent based on the product property

 $\log_6(4\cdot 10)$ 

 $\log_{10}(4\cdot 5)$ 

A	$\log_4 10 + \log_4 6$	В	$\log_6 4 + \log_6 10$	Α	$\log_4 10 + \log_4 5$	В	$\log_4 5 + \log_4 10$
C	$\log_6 13 + \log_6 7$	D	$\log_{10} \mathtt{4} + \log_{10} \mathtt{6}$	C	$\log_{10}4+\log_{10}5$	D	$\log_5 4 + \log_5 10$

7 Convert the given logarithm to its equivalent based on 8 the product property

Convert the given logarithm to its equivalent based on the product property

 $\log_8(10\cdot 4)$ 

 $\log_8(3\cdot 4)$ 

Α	$\log_8 10 + \log_8 4$	В	$\log_{10}8+\log_{10}4$	Α	$\log_3 8 + \log_3 4$	В	$\log_4 3 + \log_4 8$
С	$\log_4 10 + \log_4 8$	D	$\log_{10}4+\log_{10}8$	С	$\log_8 3 + \log_8 4$	D	$\log_3 4 + \log_3 8$