

What are some rules for logs?

1. $\log(ab) =$

2. $\log\left(\frac{a}{b}\right) =$

3. $\log(a^b) =$

4. $\log_b 1 =$

1. $\log(ab) = \log a + \log b$

2. $\log\left(\frac{a}{b}\right) = \log a - \log b$

3. $\log(a^b) = b \cdot \log a$

4. $\log_b 1 = 0$

1. $\ln e^x =$

2. $\ln e^{AT} =$

3. $\log_b b^x =$

4. $\log_b b^{AT} =$

1. ~~$\ln e^x = x$~~

2. ~~$\ln e^{AT} = AT$~~

3. ~~$\log_b b^x = x$~~

4. ~~$\log_b b^{AT} = AT$~~