NOTES

TALK the TALK

Always, Sometimes, Never

Complete each sentence with *always, sometimes, or never* to make it true. Explain your reasoning.

1. **The value of a logarithm is _____ equal to the exponent of the corresponding exponential equation.**

2. **The argument of a logarithmic expression is _____ a negative number.**

3. **The value of a logarithm is _____ equal to a negative number.**

4. **The base of a logarithm is _____ a negative number.**

5. **A logarithm is _____ a value that is not an integer.**

6. **For a base greater than 1, if $b > c$ then the value of $\log_a b$ is _____ greater than $\log_a c$.**

7. **If $a > b$, then the value of $\log_a 1$ is _____ less than $\log_b 1$.**

8. **The base of a logarithm is _____ equal to 1.**