Group Work on Logarithms and big-O

CSC-024, Prof. Ostheimer

Decide if the following statements are true or false.

1. $\log(x)$ is $O(\log(x))$

2. $(\log(x))^2$ is $O(\log(x))$

3. $\log(x^2)$ is $O(\log(x))$

4. $\log(2^x)$ is $O(\log(x))$

5. $\log(2^x)$ is $O(x)$

6. $\log(2^{(x^2)})$ is $O(x)$

7. $\log((2^x)(x^2))$ is $O(x)$

8. $\log_{16}(x)$ is $O(\log(x))$

9. $\log(x)$ is $O(\log_{16}(x))$