## Big-O

## True or False?

- 1.  $n^2$  is  $O(n^3)$ ?
- 2.  $n^3$  is  $O(n^3 200)$ ?
- 3.  $n^3$  is  $O(n^2)$ ?
- 4.  $n^2$  is  $O(n^3 200n)$ ?
- 5.  $5n^2 + 1000$  is  $O(n^3)$ ?
- 6.  $n^n$  is O(n!)?
- 7. n! is  $O(n^n)$ ?
- 8.  $2^{logn}$  is O(n)?