Joshua Cole

Problem 1.2

d. Is $f(n) = \Omega(g(n))$ and f(n) = o(g(n)) sometimes, always, or never true?

I believe that it is never true.

The little-oh notation expresses a loose upper-bound. The capital-omega notation expresses a tight lower-bound. In other words this being true would imply something along of the lines of: f(n) < g(n) and $f(n) \ge g(n)$. This is obviously absurd.

1 of 1 04/14/2011 04:45 PM