Review 3

1. Write O if an entry is true or X otherwise.

	O(n)	$\Omega(n)$	$\Theta(n)$	o(n)	$\omega(n)$
$\lg n$					
n	О	О	О	X	X
$n \lg n$					
$n\lg^2 n$					
n^2					

2. Show $3n + 1 = O(n^2)$ by the definition of O.

3. Write asymptotic notations that satisfy each relation and explain why.									
	Transitivity O is transitive	e because	f(n) = O(g(n))	and	g(n) = O(h(n))	implies	f(n) = O(h(n))	•	
(2)	Reflexivity								
(3)	Symmetry								
(4)	Transpose sym	nmetry							