Is it true that $\log_2 n = O(n^2)$ ?	
Yes No	
<ul><li>✓ Correct</li><li>A logarithmic function grows slower than a polynomial function.</li></ul>	
$2.  n \log_2 n = O(n)$	1/1 point
○ Yes	
No	
3. $n^2 = O(n^3)$	1 / 1 point
Yes	
○ No	
$\checkmark$ Correct $n^a$ grows slower than $n^b$ for constants $a < b$ .	
n grows slower than $n$ -for constants $a < b$ .	
4. $n = O(\sqrt{n})$	1/1 point
○ Yes	
No	
5. $5^{\log_2 n} = O(n^2)$	1/1 point
Yes	
No	
$\checkmark$ Correct	
Recall dideta = 0 300 = 10 . This gions loster didn'n since 1882 0 = 2.021 11 > 2.	
6. $n^5 = O(2^{3\log_2 n})$	1 / 1 point
○ Yes	
No	
7. $2^n = O(2^{n+1})$	1 / 1 point
Yes No	
Correct $2^{n+1}=2\cdot 2^n$ , that is, $2^n$ and $2^{n+1}$ have the same growth rate and hence $2^n=\Theta(2^{n+1})$ .	