Due Date: July 11, 2011 Monday	NAME:
Ali Sinan Sertöz	STUDENT NO:

Math 302 Complex Analysis II – Homework 7

1	2	TOTAL
10	10	20

Please do not write anything inside the above boxes!

Check that there are 2 questions on your booklet. Write your name on top of every page. Show your work in reasonable detail. A correct answer without proper or too much reasoning may not get any credit.

NAME:	STUDENT NO:	
<b>Q-1</b> ) Find an infinite product expression for $\cos z$ and prove in detail all phases of your arguments.		
Solution:		

NAME:

STUDENT NO:

**Q-2**) Prove that

$$\pi = 2 \prod_{\substack{n=2\\ n \text{ even}}}^{\infty} \frac{n^2}{(n-1)(n+1)}.$$

**Solution:**