Surname:	
Group: Date:	
Answer the questions in the spaces provided. If you run out of room for an answer, continue on the back of the page.	
1. Given the equation $x^n + y^n = z^n$ for $(x, y, z)$ and $n$ positive integers.	
(a) For what values of $n$ is the statement in the previous question true?	(10 points)
I know the demostration, but there's no room on the margin. For any clarification ask Andrew Whilst.	
(b) For $n=2$ there's a theorem with a special name. What's that name?	(10 points)
Pythagorean theorem.	
(c) What famous mathematician had an elegant proof for this theorem but there was not enough space in the margin to write it down?.	(10 points)
2. Prove that the real part of all non-trivial zeros of the function $\zeta(z)$ is $\frac{1}{2}$ .	(20 points)

I'm working on it. When I have the solution, I'll let you know....

Model A