PROBLEM 4 (3/3 points)

Let P be a prime number whose remainder is 1 when we divide it by 4. Fermat's theorem on sums of two squares says that it can be written as the sum of two squares:

$$P = X^2 + Y^2$$

Confirm this theorem for the following prime numbers. Write each of them as the sum of two squares in ascending order.

(1) $53 = A^2 + B^2$

(2) $61 = C^2 + D^2$

(3) $97 = E^2 + F^2$

A	B	C
2 ✔	7 ✔	5 ✔
2	7	5

D	E	F
6 ✔	4 ✔	9 ✔
6	4	9

You have used 1 of 2 submissions