Q.6

Prove that the only set of 3 primes seperated by 2 is {3,5,7

Proof: Let p denote a natural number.

In p, p+2, p+4, one of these is divisible by 3. (Answer to Question 5)

So, In order for p, p+2, and p+4 to be prime, p has to be 3.

Following, p+2=5, p+4=7.

QED