P = 31 q = 19

31 \* 19 = n

589 = n

P(n) = 30 \* 18

P(n) = 540

E = 7

7\*d mod 540 = 1

540x + 7y = 1

540 = 77(7) + 1

7 = 7(1)

My head hurts with the Euclidean algorithm. I’ll have to study it