**Comp3121 Assignment2**

Q1.

Let y = x^3, the PA(x) = A0+A3y+A6y^2, and Pb(y) = B0+B3y+B6y^2+B9y^3

The degree of Pa+Pb = 3+2 = 6. So, multiplications is 6+1 = 7.

Q2.

1. (a+i\*b)(c+i\*d) = a\*c +a\*i\*d+i\*b\*c-d\*b = a\*c-d\*b + (a+d)\*i.