Experiment 3

>> **MATLAB Code**

```
%Coefficient matrix of polynomial function f and g
f = [15 -7 2 4];
g = [9 -17 3];

%Product of f and g
prod_const = conv(f,g)

%Roots of f and g
root_f = roots(f)
root_g = roots(g)

%Quotient and Remainder when f is divided by g
[Q,R] = deconv(f,g);
Quotient = Q
Remainder = R

%Value of f at 3 and g at 2i
value_f = polyval(f,3)
value_g = polyval(g,2i)
```

>> **Command Window**

```
prod_const =

  135 -318 182 -19 -62 12


root_f =

  0.4672 + 0.5933i
  0.4672 - 0.5933i
  -0.4676 + 0.0000i


root_g =

  1.6919
  0.1970


Quotient =

  1.6667 2.3704


Remainder =

  0 0 37.2963 -3.1111


value_f =

  352


value_g =

  -33.0000 -34.0000i


>>
```