

Experiment 1 : Creating Arrays

```
% Array Addition
a = [1 2 3 4];
b = [5 6 7 8];

c = a + b;
d = a - b;

% Matrix Addition and Multiplication

A = [1 2 3; 4 5 6; 7 8 9; ];
B = [ 10 11 12; 13 14 15; 16 17 19 ];

C = A + B;
D = A * B;

% Transpose a Matrix

E = A';

% Rank of a Matrix

F = rank(A);

plot(c)

plot(d)

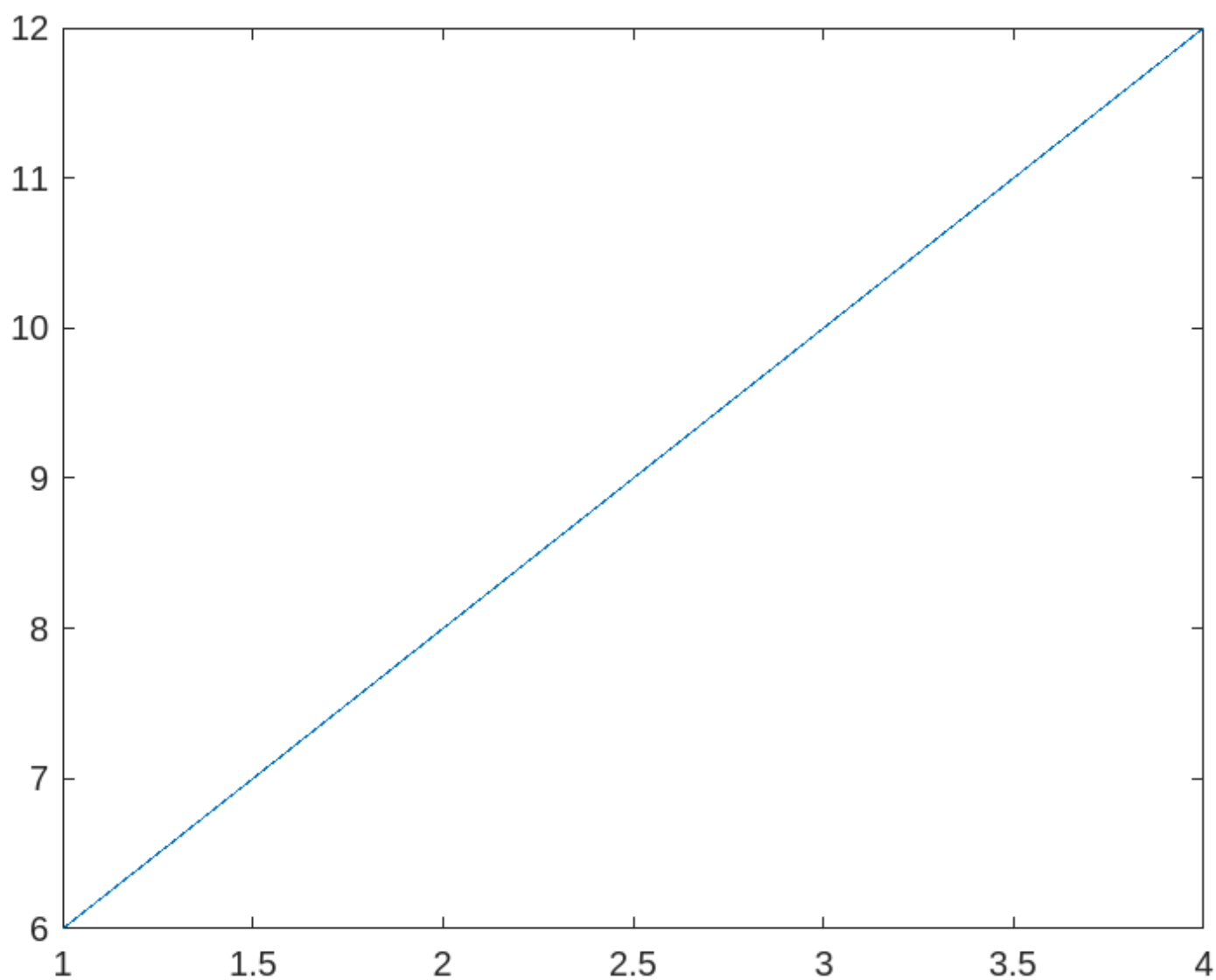
plot(C)

plot(D)

plot(E)
```

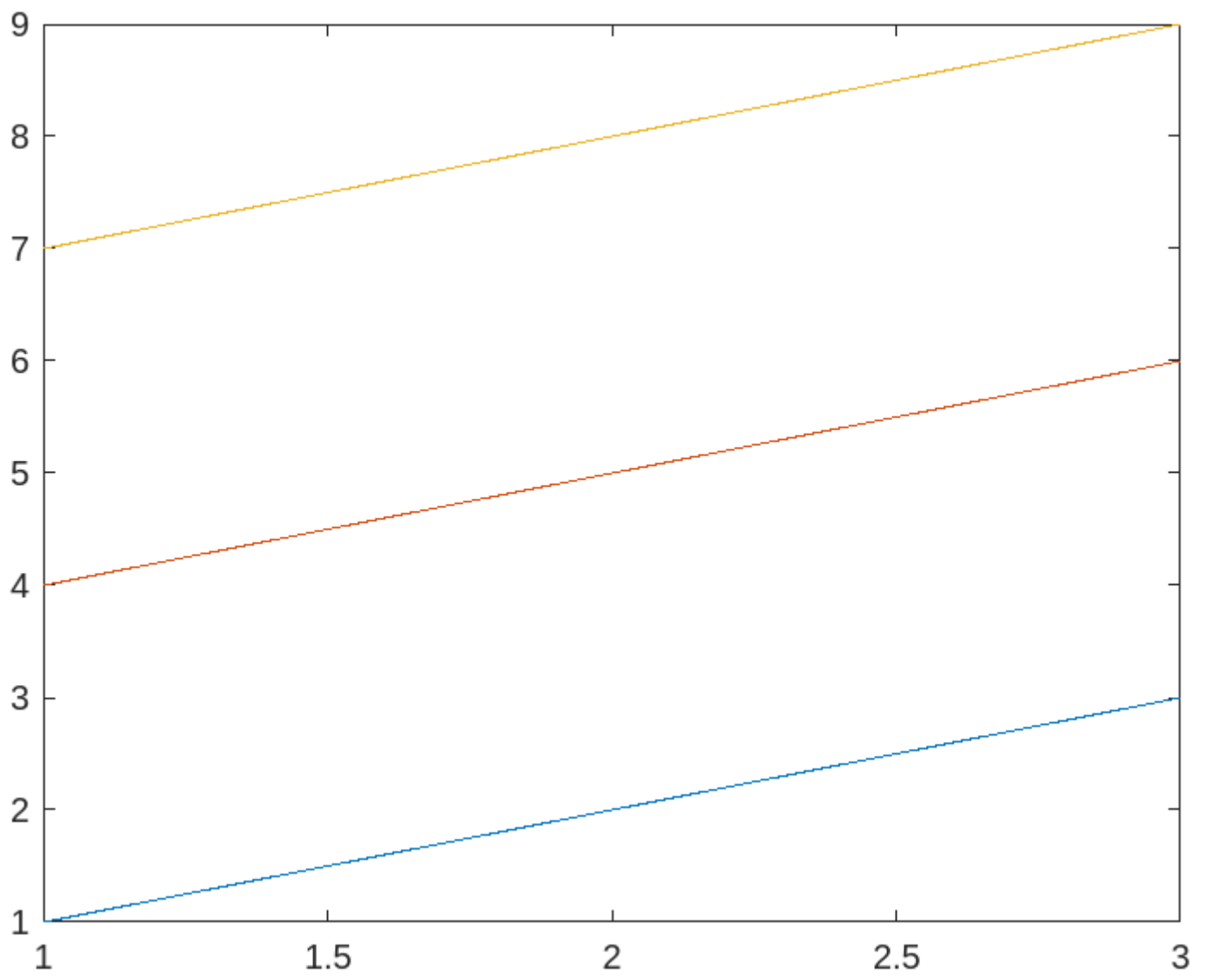
Output

Array Addition

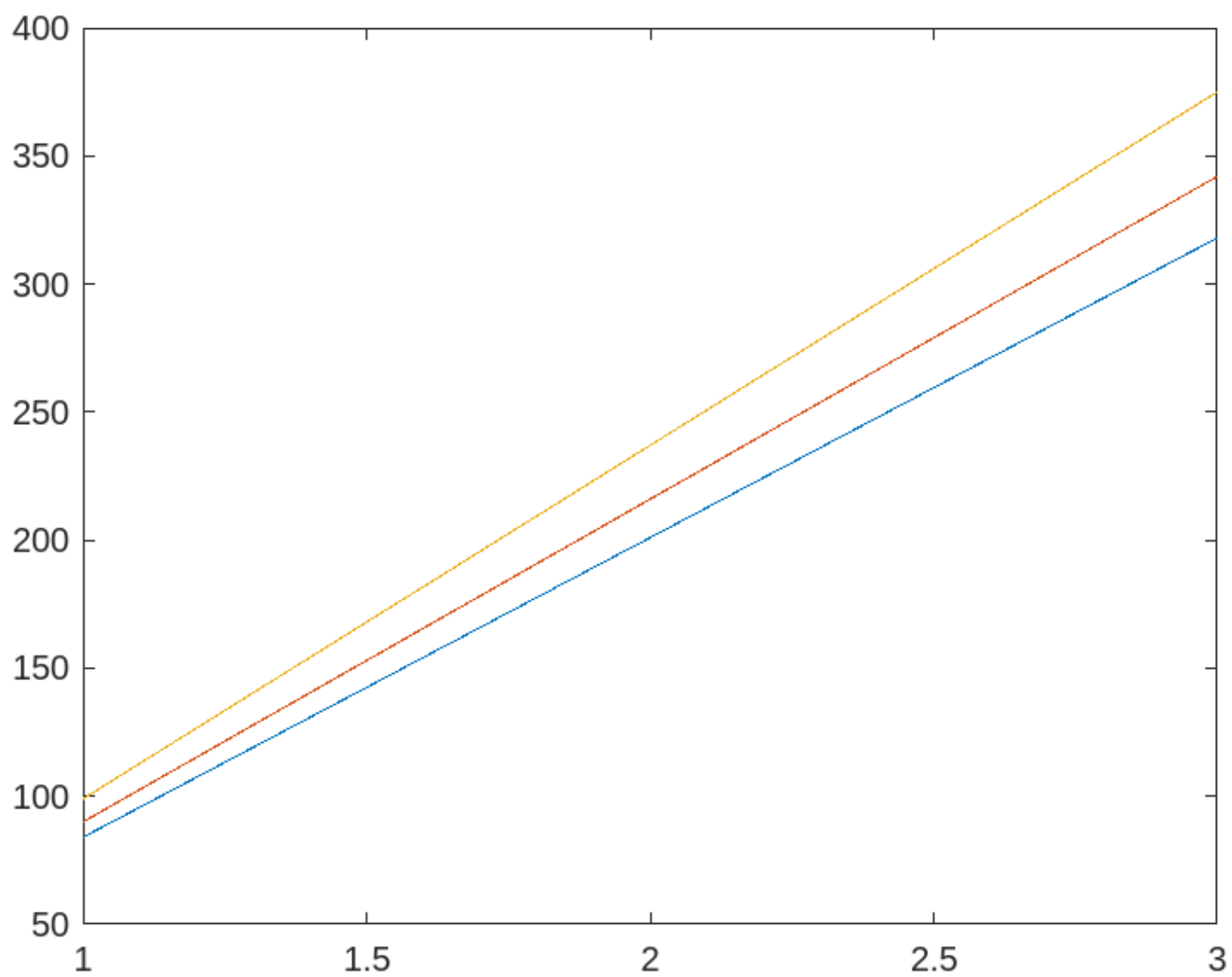


Matrix Addition and Multiplication

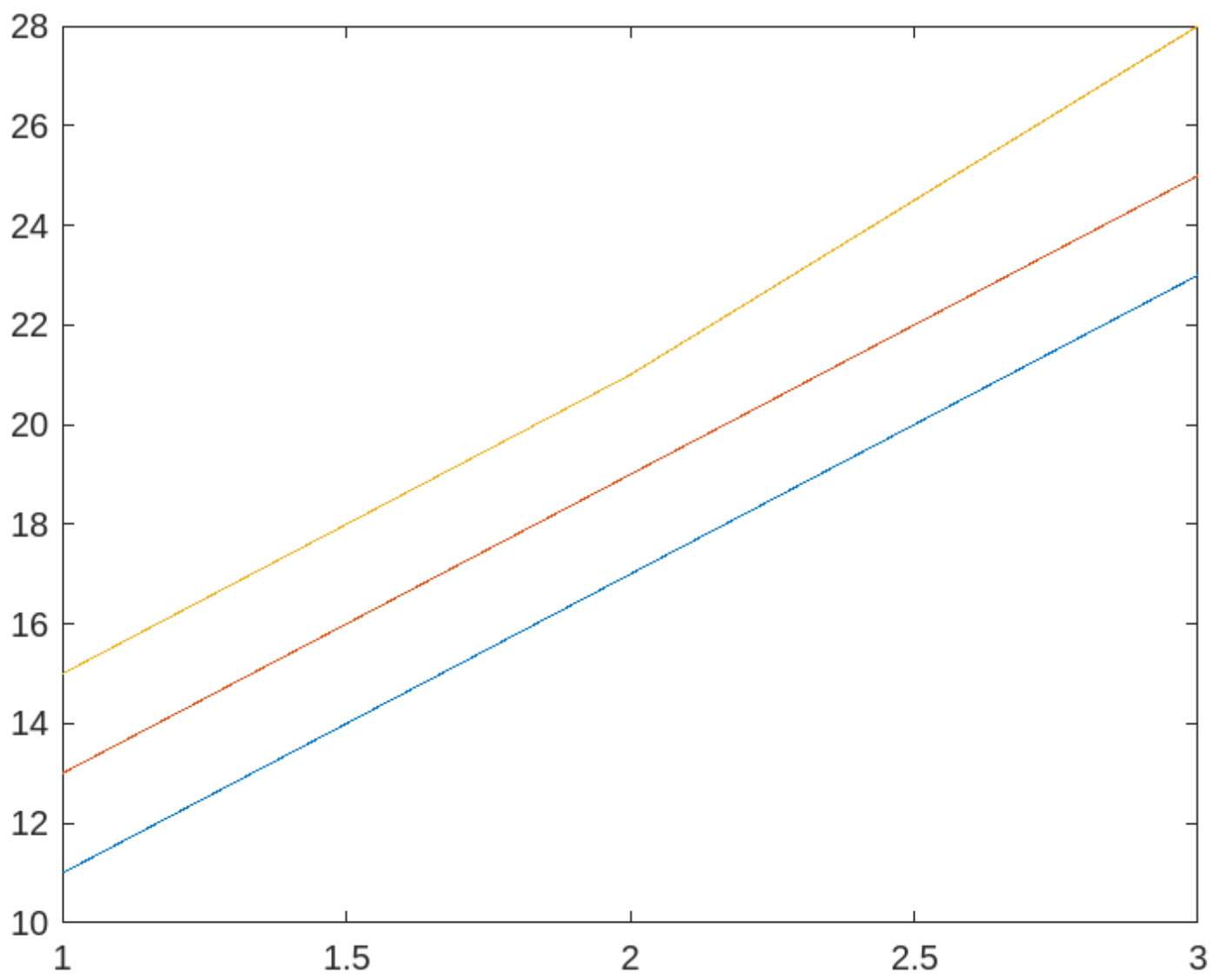
Matrix Addition



Matrix Multiplication



Transpose a Matrix



Rank of a Matrix

