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```
clc
clear all
```

# EXCERCISE 1

Evaluate 10pi+7^3=2^-2

```
10*pi + 7^3 + 2^(-2)
```

```
ans =

  374.6659
```

# EXCERCISE 2

Determine product of AB

```
a = [3.2 8 -1 0; 3 7.2 4.5 -2.3; -6.2 3.5 2 -3; -1.4 -2.2 0 4.5];
b = [2.2 7; 5 1; 6 3.8; -2 0.5];

c = a * b
```

```
c =

   41.0400   26.6000
   74.2000   44.1500
   21.8600  -33.8000
  -23.0800   -9.7500
```

# EXCERCISE 3

Solve Ax=b where d is the same as in step 2

```
d = [3.2 8 -1 0; 3 7.2 4.5 -2.3; -6.2 3.5 2 -3; -1.4 -2.2 0 4.5];
e = [1;0;-2;3];
```

```
x_1 = e .* inv(d)
x_2 = inv(d) * e
```

```
x_1 =

   -0.0090    0.0544   -0.1268   -0.0568
         0         0         0         0
    0.2893   -0.3833    0.0070   -0.1912
    0.1537    0.0540   -0.0446    0.6645
```

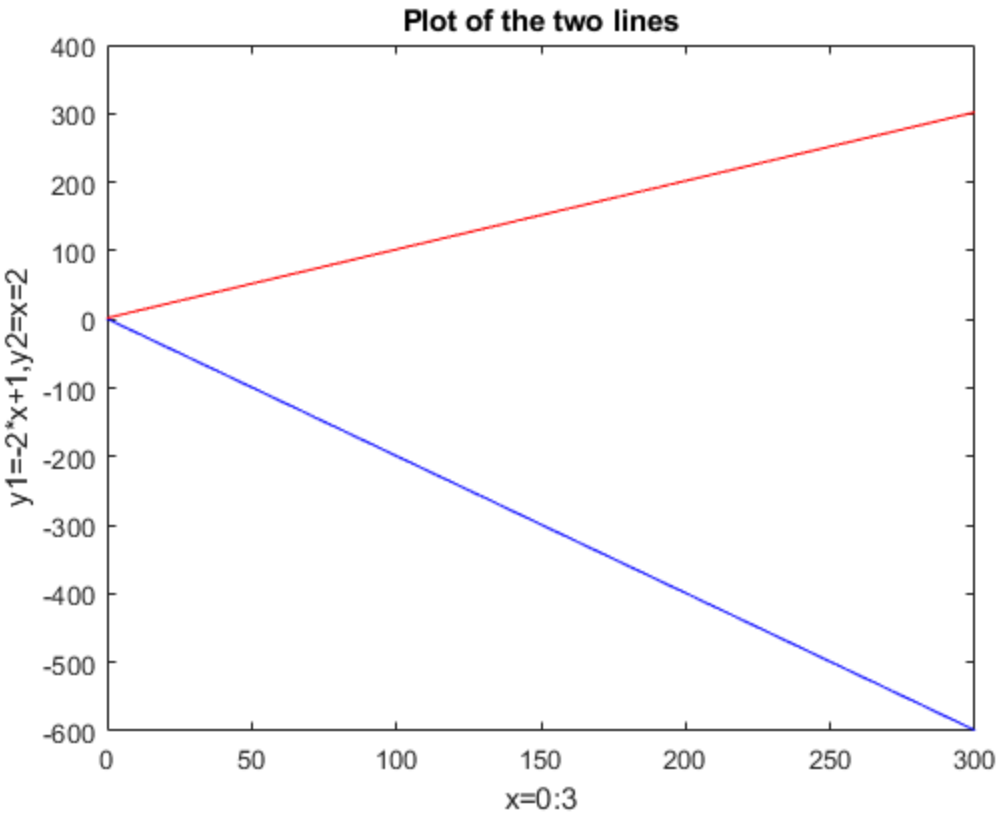
```
x_2 =

    0.0743
    0.1139
    0.1492
    0.7455
```

# EXCERCISE 4

```
for k=1:3001
    x(k) = (k-1) * .1;
    y1(k) = -2 * x(k) + 1;
    y2(k) = x(k) + 2;
end

plot (x,y1, 'b')
hold on
plot(x,y2,'r')
xlabel('x=0:3')
ylabel('y1=-2*x+1,y2=x=2')
title('Plot of the two lines')
```

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