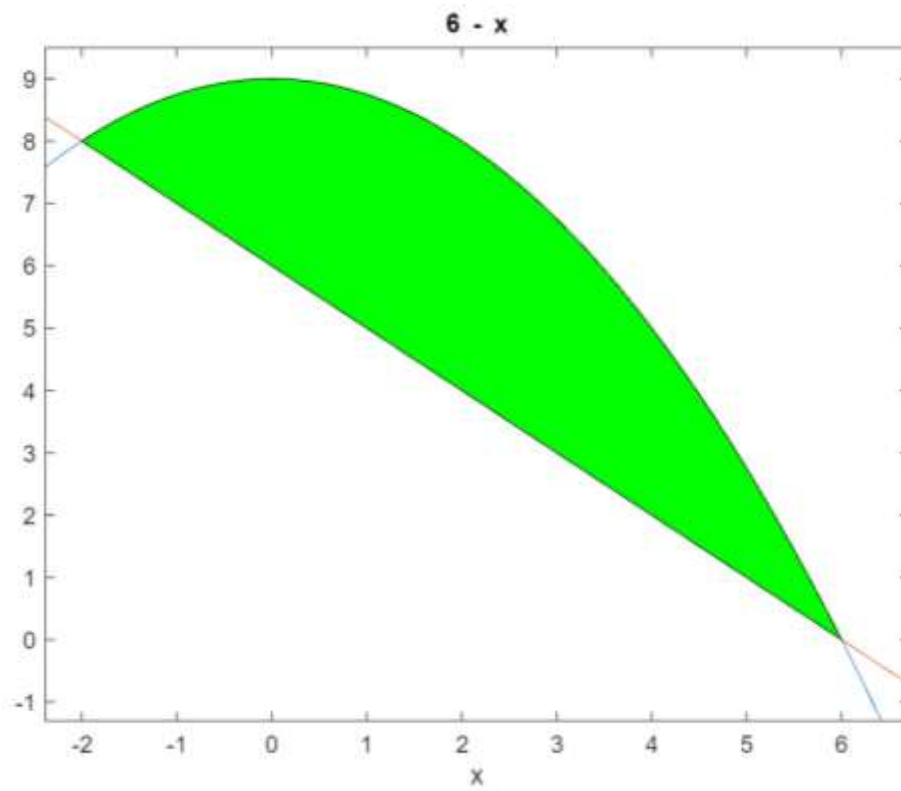


Assignment 1

```
1  clc
2  clear all
3  syms x y real
4  y1=9-(x/2)^2
5  y2=6-x;
6  fg=figure;
7  ax=axes;
8  t=solve(y1-y2);
9  kokler=double(t)
10 n=length(kokler)
11 m1=min(kokler)
12 m2=max(kokler)
13 ez1=ezplot(y1,[m1-1,m2+1]);
14 hold on
15 TA=0;
16 ez2=ezplot(y2,[m1-1,m2+1]);

17 if n>2
18     for i=1:n-1
19         A=int(y1-y2,t(i),t(i+1))
20         TA= TA+abs(A)
21         x1 = linspace(kokler(i),kokler(i+1));
22         yy1 =subs(y1,x,x1);
23         yy2 = subs(y2,x,x1);
24         x1 = [x1,flip1r(x1)];
25         yy = [yy1,flip1r(yy2)];
26         fill(x1,yy,'g')
27         grid on
28     end
29 else
30     A=int(y1-y2,t(1),t(2))
31     TA=abs(A)
32     x1 = linspace(kokler(1),kokler(2));
33     yy1 =subs(y1,x,x1);
34     yy2 = subs(y2,x,x1);
35     x1 = [x1,flip1r(x1)];
36     yy = [yy1,flip1r(yy2)];
37     fill(x1,yy,'g')
38 end
```



Command Window

y1 =

9 - x^2/4

kokler =

-2

6

n =

2

m1 =

-2

$$m_2 =$$

$$6$$

$$A =$$

$$64/3$$

$$T_A =$$

$$64/3$$