

PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ
CENG 241 BİLİMSEL HESAPLAMA DERSİ FİNAL SINAVI CEVAP KAĞIDI

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CEVAP 1)

- `>> clear all`
`>>y=x(3:end);`
`>>y(end+1:end+2)=x(1:2);`

- `>> clear all`
`>>X'(size(X,1):-1:1;`

CEVAP 2)

```
>> clear all  
  
>> a=[1 0 -2; 1 -1 1; 0 3 -2];  
  
>> b=[-4;3;-1];  
  
>> c=inv(a)*b  
  
c =
```

1.7143

1.5714

2.8571

CEVAP 3)

```
i=0;
```

```
for x=0:0.04:4
```

```
    i=i+1;
```

```
    y(i)=exp(-x)sin(3x);
```

```
end
```

```
x=0:0.04:4;
```

```
A(i)=0;
```

```
for i = 2:101,
```

```
    A(i)=A(i-1)+(x(i)-x(i-1))*(y(i)+y(i-1))/2;
```

```
end
```

```
plot(x,y,'k');
```

```
hold on
```

```
plot(x,A,'k:');
```

```
xlabel('zaman[s]');
```

```
ylabel('y(x) ve int(y(x))');
```

```
title('integral işlemi');
```

CEVAP 4)

```
>>> x = linspace(0,10,50)
```

```
>>t = linspace(0,20,100)
```

```
>>grid off;
```

```
>>xlabel('x eksenı');
```

```
>>tlabel('t değeri');
```

```
>>zlabel('u çıkışı');
```

```
>>syms x t u
```

```
>>u=cos(t)*sin(x)
```

SORU 5)

```
clear all
```

```
syms x
```

```
int(sqrt(2*x-1),1,10)
```

```
-(1/3 )+ (19·√19)/3
```

CEVAP 6)

```
C1=[1/4,2];
```

```

C2=[-1,3];

R1=2.015;

R2= 3;

F=@(x) ((x(1)-C1(1))^2+(x(2)-C1(2))^2-R1^2;...

        (x(1)-C2(1))^2+(x(2)-C2(2))^2-R2^2]);

a=fsolve(F,[C1(1),C1(1)+R1]);

b=fsolve(F,[C1(1),C1(1)-R1]);

Xcozum = [a(1), b(1)];

Ycozum = [a(2), b(2)];

fprintf('X cozum: (%f,%f)\n',Xcozum(1),Xcozum(2));

fprintf('Ycozum: (%f,%f)\n',Ycozum(1),Ycozum(2));

```

CEVAP 7)

A=

B=

C=

D=