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Soru 1

A)

```
X = [ 2 3 5 8 ]
Y = [ 3 4 4 5]
coefficients = polyfit(X, Y, 1)
m = coefficients(1)
b = coefficients(2)
```

B)

```
t = 1.5 : 100 : 8.5;
Y = m * X + b;
plot(X,Y);
```

Soru 2

1:Yöntem

```
sum(list_primes(168))
```

2.Yöntem

```
cumsum(list_primes(length(primes(1000))))(end)
```

Soru 3

A)

```
>> V2= []

V2 = [](0x0)

>> for i=1:length(V)

V2 = [V2 V(i) V(i)];

end
```

B)v2=repelem(v, 2)

 alternative =

```
>>vd=[v;v]

>>v2=reshape(vd, 1, 6)
```

Soru 4

k = (a1 { 2 }) (2 , 2)

Soru 5

```
A=[9 0 0 0 0 0;0 2 0 0 1 0;0 3 0 0 0 0;8 0 0 0 0 5;0 0 0 0 0 0;0 0 0 0 0 0]

sparse(A)
```

Soru 6

A).

```
for n=0:10

toplam=0;

toplam=toplam+((1/((2*n)+1)))*cos((n*pi)+(0.2*pi))

disp(toplam)

end
```

B)

```
n=0;

N=10;

A=n:1:N
```

X=(1/2n+1)cos(npi+Q)

Toplam=sum(X)

Soru 7

feval('size', zeros(4))