

**MAT 322 MATEMATİKSEL DENKLEMLERİN BİLGİSAYAR DESTEKLİ  
ÇÖZÜMLERİ II 1. QUIZ CEVAP ANAHTARI**

**C-1)**

```
ClearAll[x0,y0,m,n,y,b];
```

```
f[x_]:=4x/(x^2+1)
```

```
x0=2
```

```
y0=f[2]
```

```
D[f[x],x]
```

```
m=Function[x, -8x^2/(1+x^2)^2 + 4/(1+x^2)][2]
```

```
Solve[m*x0+b==y0,b]
```

```
%%[[1]]
```

```
n=%%[[1,2]]
```

```
y=m*x+n
```

**C-2)**

```
f[x_] := 2 - 3 * x
```

```
Integrate[Sqrt[1 + D[f[x], x]^2], {x, -2, 1}]
```

```
N[%]
```

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