Praktiskais darbs #2

Ievads simboliskaja matematika

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REBCO3

Merkis: iepazities ar matlaba simbolisko matematiku

Pirmais uzdevums

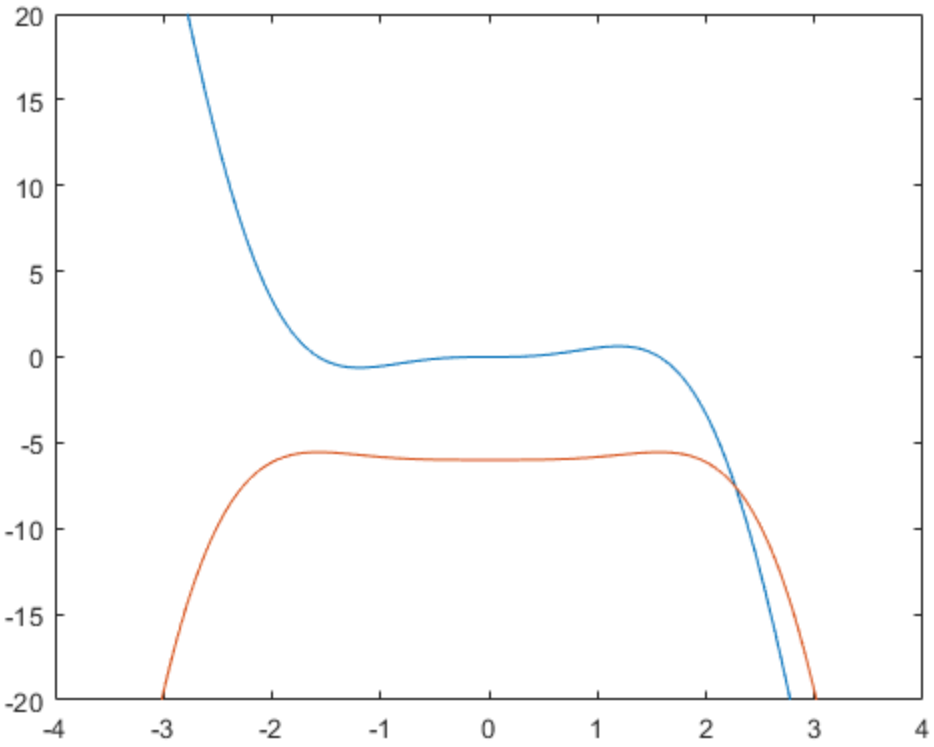
```
syms g x
eqn = g*sin(x^2) - log(g);
solg = solve(eqn,g)
```

```
solg =

-wrightOmega(-log(-1/sin(x^2)))/sin(x^2)
```

Otrais uzdevums

```
syms x
y = x^3*cos(x);
yd = int(y,x)
x = -4:0.01:4;
yv = vectorize(y)
ydv = vectorize(yd)
yn = eval(yv);
ydn = eval(ydv);
plot(x,yn,x,ydn)
ylim([-20 20])
```

```
yd =

cos(x)*(3*x^2 - 6) - sin(x)*(- x^3 + 6*x)


yv =

    'x.^3.*cos(x)'


ydv =

    'cos(x).*(3.*x.^2 - 6) - sin(x).*(6.*x - x.^3)'
```



Secinajums

Iemacijos integret un atvasinat

Iemacijos risinat at komandu solve

Iemacijos noteikt mainigos ar funkciju syms

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