

```
> H := x -> 2 - (x - 1)^2 + 3 * (x - 1)^2 * (x - 2) - 6 * ((x - 1) * (x - 2))^2 + 43/18 * (x - 1)^2 * (x - 2)^3 - 209/216 * (x - 1)^2 * (x - 2)^3 * (x - 4)
```

```
H := x -> 2 - (x - 1)^2 + 3 (x - 1)^2 (x - 2) - 6 (x - 1)^2 (x - 2)^2 + 43/18 (x - 1)^2 (x - 2)^3 - 209/216 (x - 1)^2 (x - 2)^3 (x - 4) (1)
```

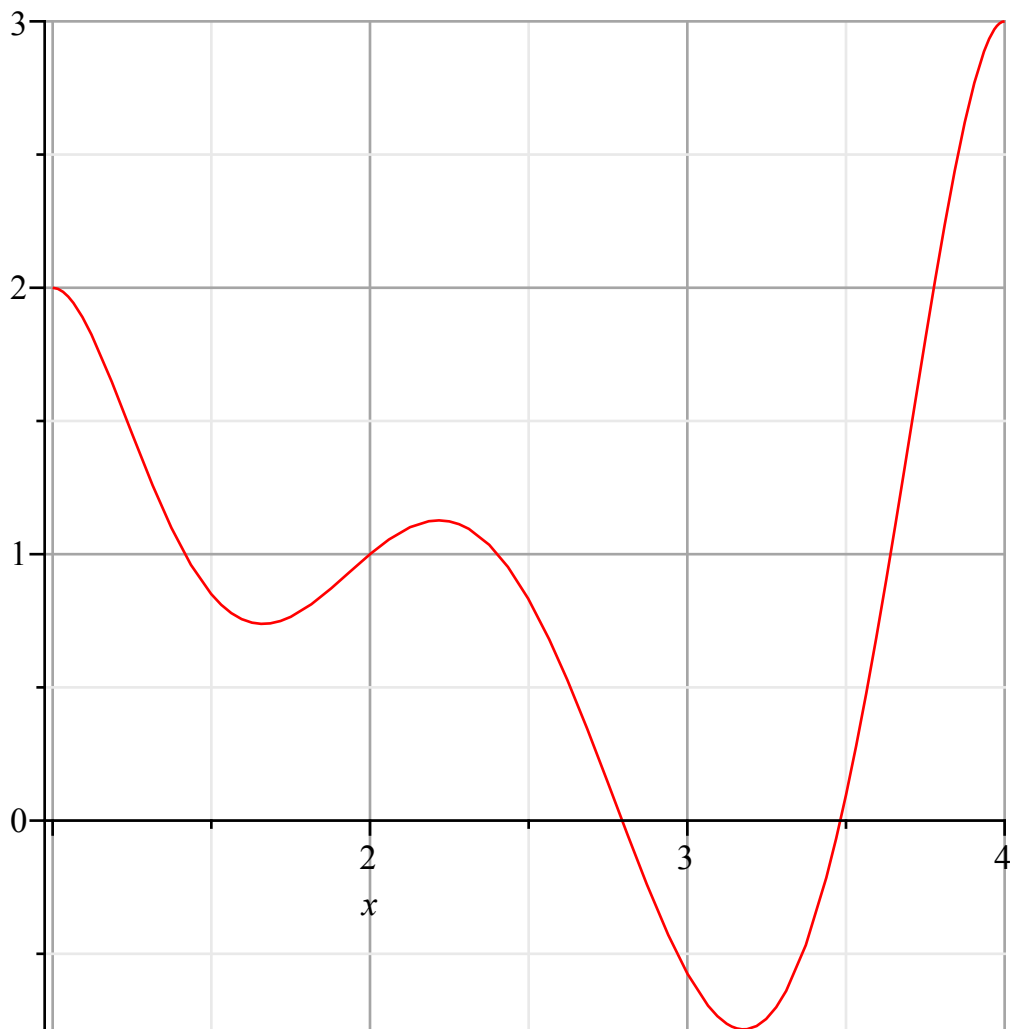
```
> H(1), H(2), H(4)
2, 1, 3 (2)
```

```
> D(H) (1)
0 (3)
```

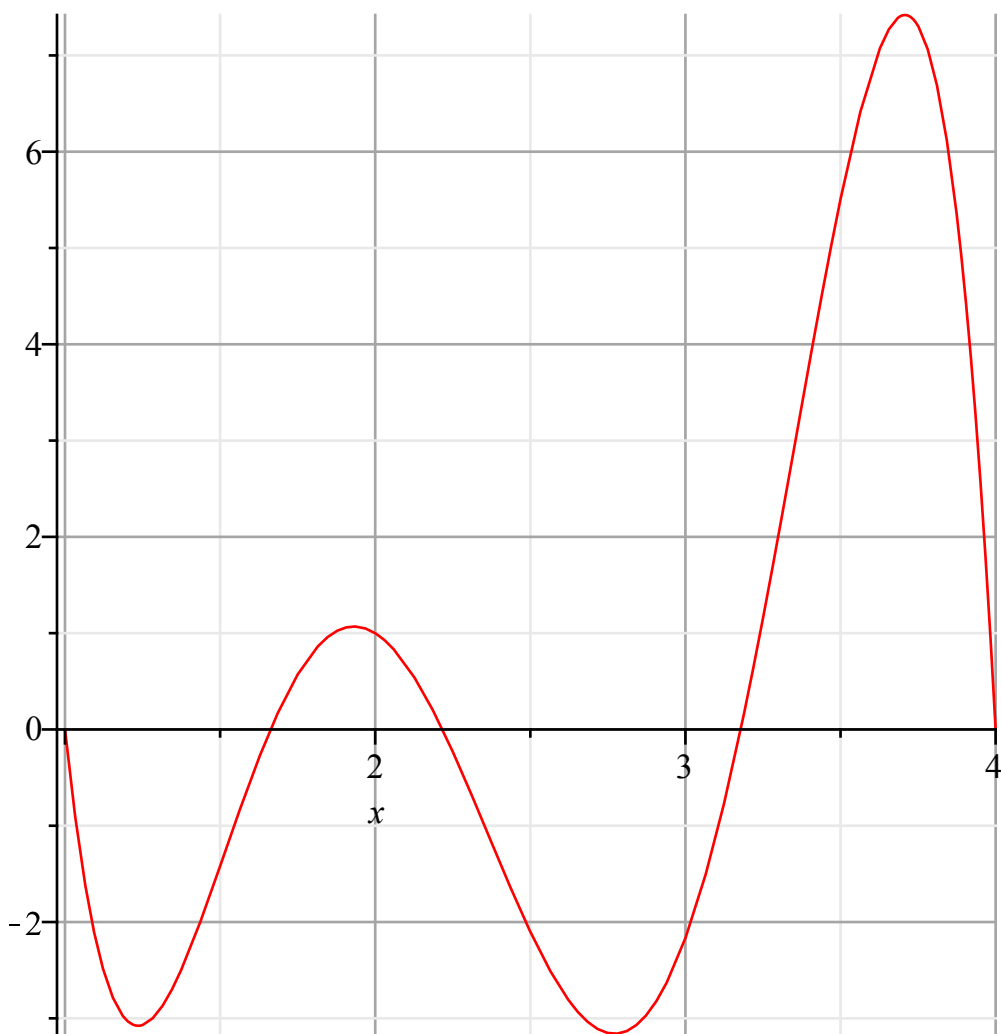
```
> D(H) (4)
0 (4)
```

```
> D(H) (2), D(D(H)) (2)
1, -2 (5)
```

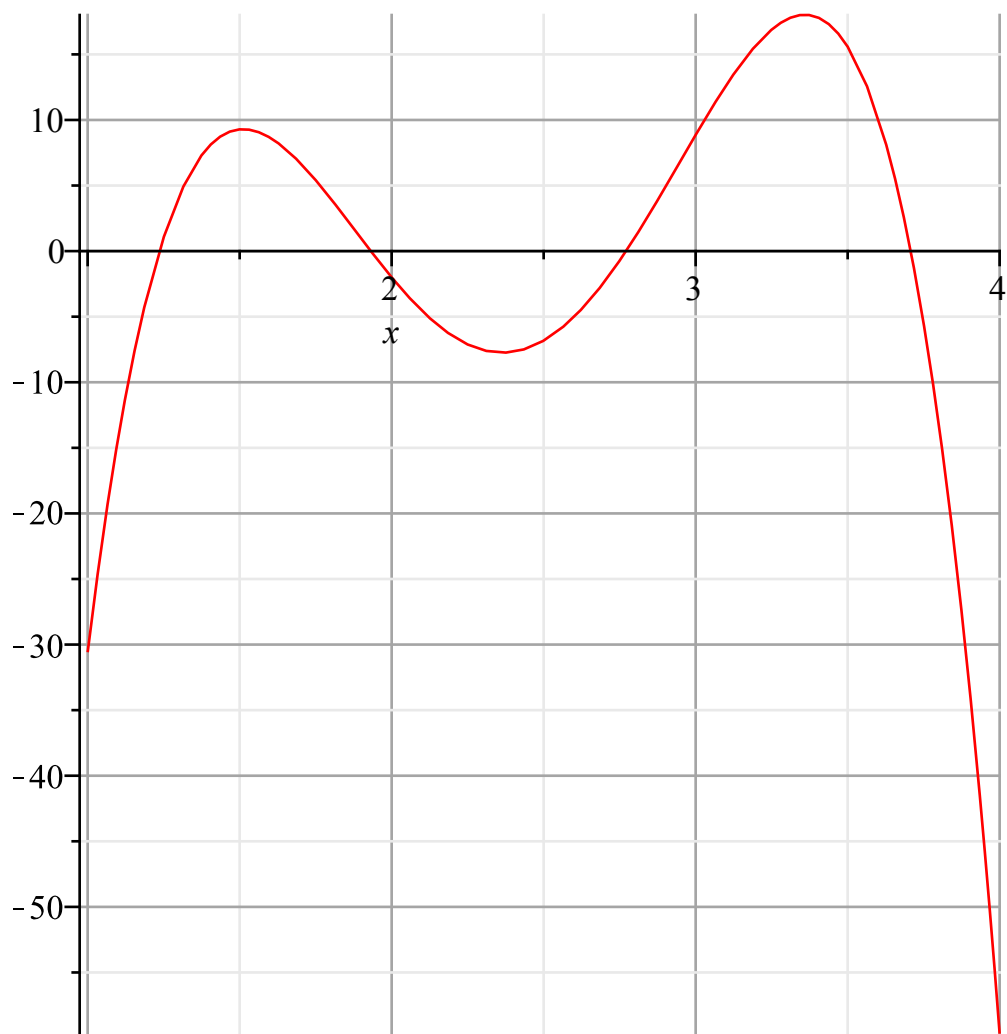
```
> plot(H(x), x = 1 .. 4, gridlines);
```



```
> plot(D(H) (x), x = 1 .. 4, gridlines)
```



`> plot(D(D(H))(x), x=1..4, gridlines)`



`> plot(D(D(H))(x), x = 1.5..2.5, gridlines)`

