

```
(%i3)  f:log(1+x);
        f0:subst(x=0,f);
        d1:subst(x=0,diff(f,x));
```

```
(f)    log(x + 1)
```

```
(f0)    0
```

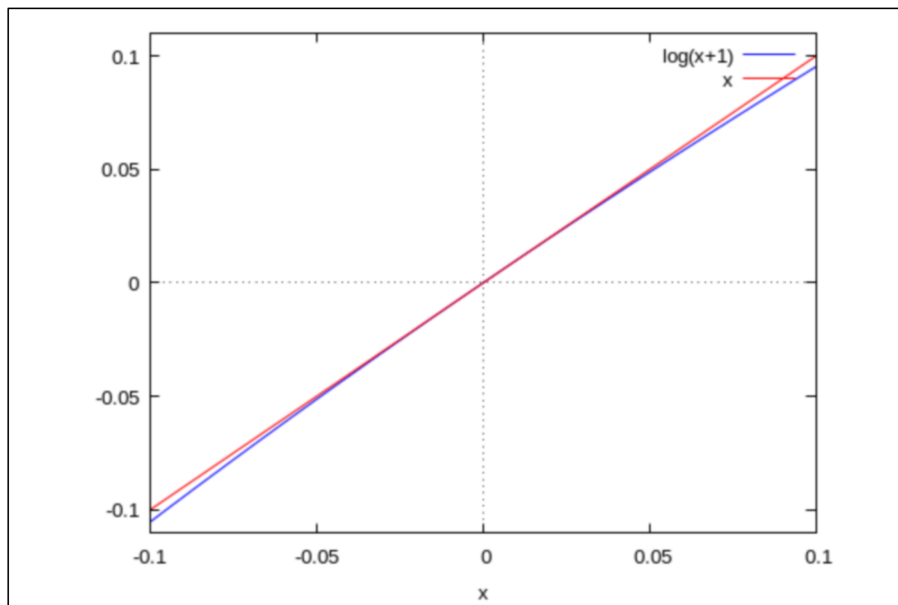
```
(d1)    1
```

```
(%i4)  p1:f0+d1·(x−0);
```

```
(p1)    x
```

```
(%i5)  wxplot2d([f,p1], [x,−0.1,0.1],[y,−0.11,0.11])$
```

```
(%t5)
```



```
(%i7)  vr:float(subst(x=−0.1,f));
```

```
hr:float(subst(x=0.1,f));
```

```
(vr)    − 0.1053605156578262
```

```
(hr)    0.09531017980432494
```

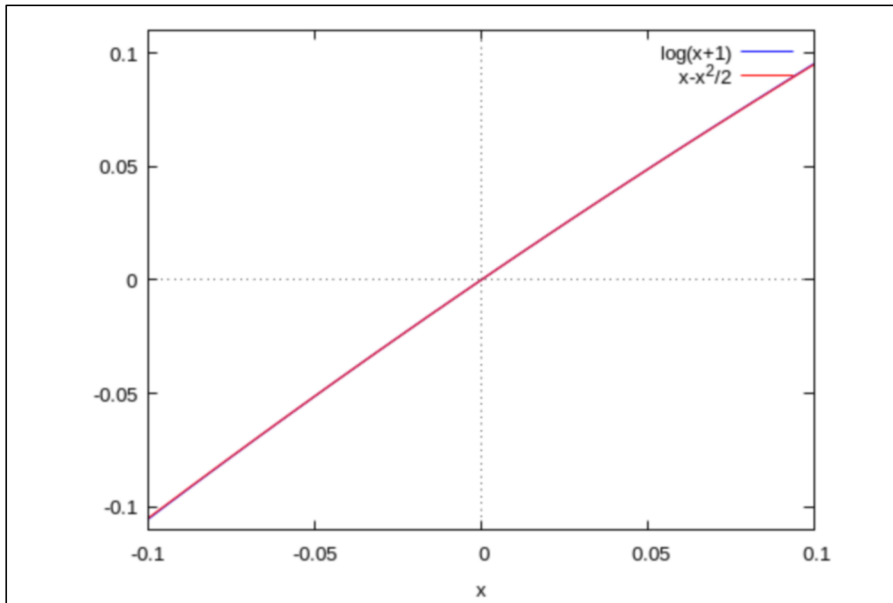
```
(%i9)  d2:subst(x=0,diff(f,x,2));
        p2:f0+d1·(x−0)+(1/2)·d2·(x−0)^2;
```

```
(d2)    − 1
```

```
(p2)    x −  $\frac{x^2}{2}$ 
```

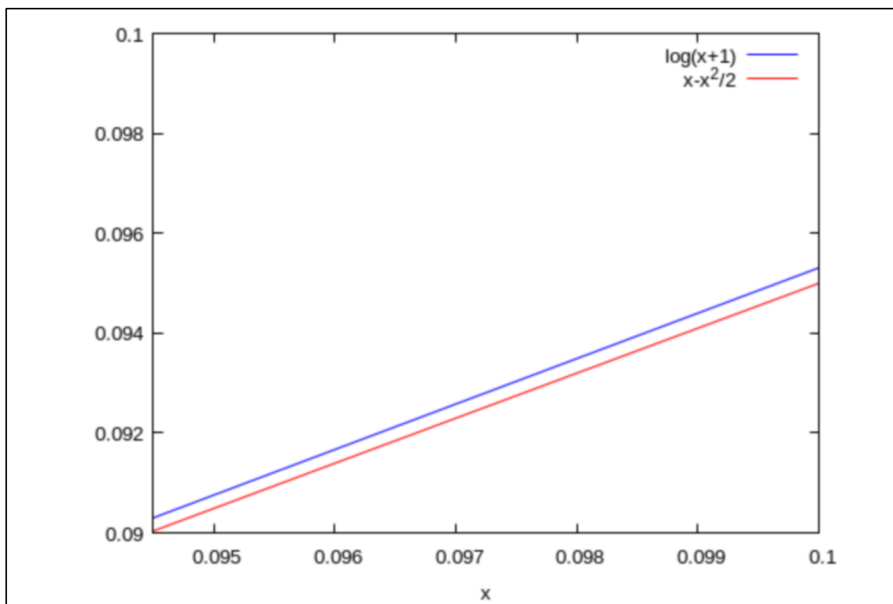
(%i13) `wxplot2d([f,p2], [x,-0.1,0.1],[y,-0.11,0.11])$`

(%t13)



(%i14) `wxplot2d([f,p2], [x,0.0945,0.1],[y,0.09,0.1])$`

(%t14)



(%i18) `float(subst(x=0.1,p2));`
`float(subst(x=-0.1,p2));`

(%o17) 0.095

(%o18) -0.105