

```
(%i1) ilt((1/(1+0.1*s))*1.051249/(s^2+1.105124460001), s, x);
```

```
rat: replaced 1.051249 by 1051249/1000000 = 1.051249
```

```
rat: replaced 0.1 by 1/10 = 0.1
```

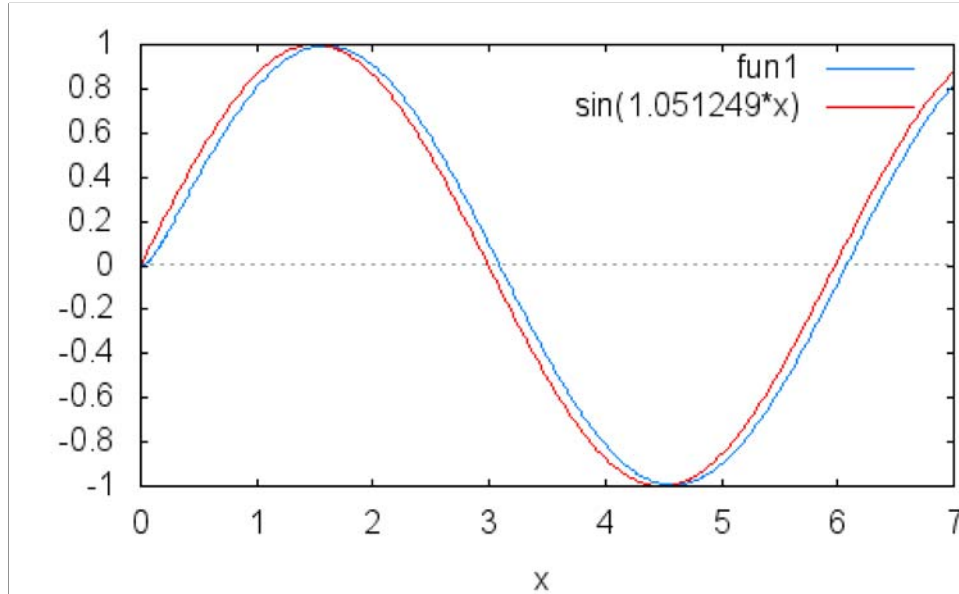
```
rat: replaced 1.105124460001 by 16700201/15111602 = 1.105124460000998
```

```
(%o1)
```

$$\frac{453468505210286799779713849 \sin\left(\frac{\sqrt{252366790832002} x}{15111602}\right) - 60015940759991799649 \cos\left(\frac{\sqrt{252366790832002} x}{15111602}\right) - 1909825501250 \sqrt{252366790832002} + 38196510025000}{15111602} e^{-10x} + \frac{7943028245449}{76393020050000}$$

```
(%i2) wxplot2d([(%o1), sin(1.051249*x)], [x, 0, 7])$
```

```
(%t2)
```



```
(%i3) ilt((1/(1+0.1*s))*s/(s^2+1.105124460001), s, x);
```

```
rat: replaced 0.1 by 1/10 = 0.1
```

```
rat: replaced 1.105124460001 by 16700201/15111602 = 1.105124460000998
```

```
(%o3)
```

$$\frac{151116020 \sqrt{252366790832002} \sin\left(\frac{\sqrt{252366790832002} x}{15111602}\right) - 22836051500640400 \cos\left(\frac{\sqrt{252366790832002} x}{15111602}\right) - 1527860401 + 1527860401}{15111602} e^{-10x} + \frac{1511160200}{1527860401}$$

```
(%i4) wxplot2d([(%o3), cos(1.051249*x)], [x, 0, 7])$
```

(%t4)

