```
> f := (x, y, z) → z − sin(x·y) :
> x := t → t :
> y := t → ln(t) :
> z := t → exp(t − 1) :
> diff( f(x(t), y(t), z(t)), t);
```

$$e^{t-1} - \cos(t \ln(t)) \, (\ln(t) + 1) \tag{1}$$

```
> D[1](f)(x, y, z)·D(x)(t) + D[2](f)(x, y, z)·D(y)(t) + D[3](f)(x, y, z)·D(z)(t);
```

$$-\cos(x\,y)\,y - \frac{\cos(x\,y)\,x}{t} + e^{t-1} \tag{2}$$

```
> eval(%, [x = x(t), y = y(t), z = z(t)]);
```

$$-\cos(t \ln(t)) \, \ln(t) - \cos(t \ln(t)) + e^{t-1} \tag{3}$$

```
> collect(%, cos);
```

$$(-\ln(t) - 1) \, \cos(t \ln(t)) + e^{t-1} \tag{4}$$

```
>
```