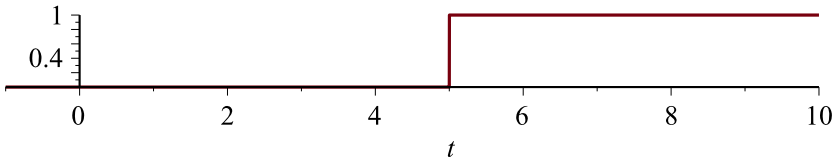
```
> restart
> u := Heaviside(t - 5)
```

$$u := \text{Heaviside}(t - 5) \tag{1}$$

```
> plot(u, t = -1 ..10, scaling = CONSTRAINED)
```



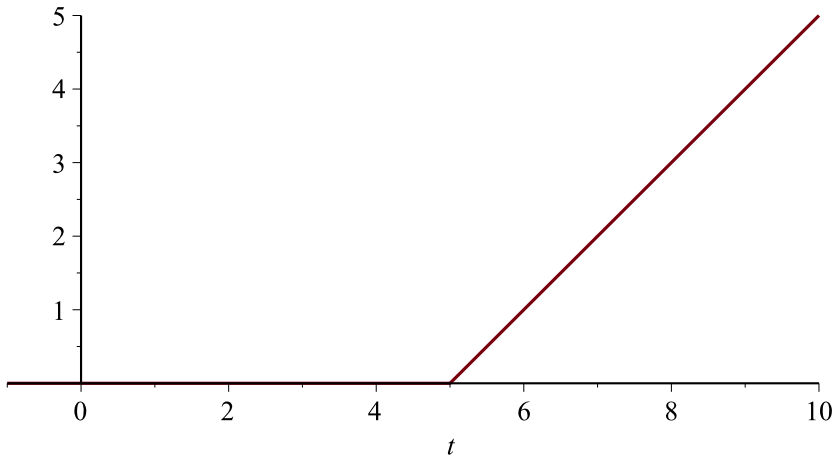

```
> with(inttrans) :
> U := laplace(u, t, s)
```

$$U := \frac{e^{-5s}}{s} \tag{2}$$

```
> r := (t - 5)·Heaviside(t - 5)
```

$$r := (t - 5)\ \text{Heaviside}(t - 5) \tag{3}$$

```
> plot(r, t = -1 ..10, scaling = CONSTRAINED)
```




```
> R := laplace(r, t, s)
```

$$R := \frac{e^{-5s}}{s^2} \quad \textbf{(4)}$$

```
> DD := invlaplace(exp(-5·s), s, t)
```

$$DD := \mathrm{Dirac}(t-5) \quad \textbf{(5)}$$

```
>
```