```
> restart;
> f:= x-> ln(x+1)/x;
```

$$f := x \to \frac{\ln(x+1)}{x}$$

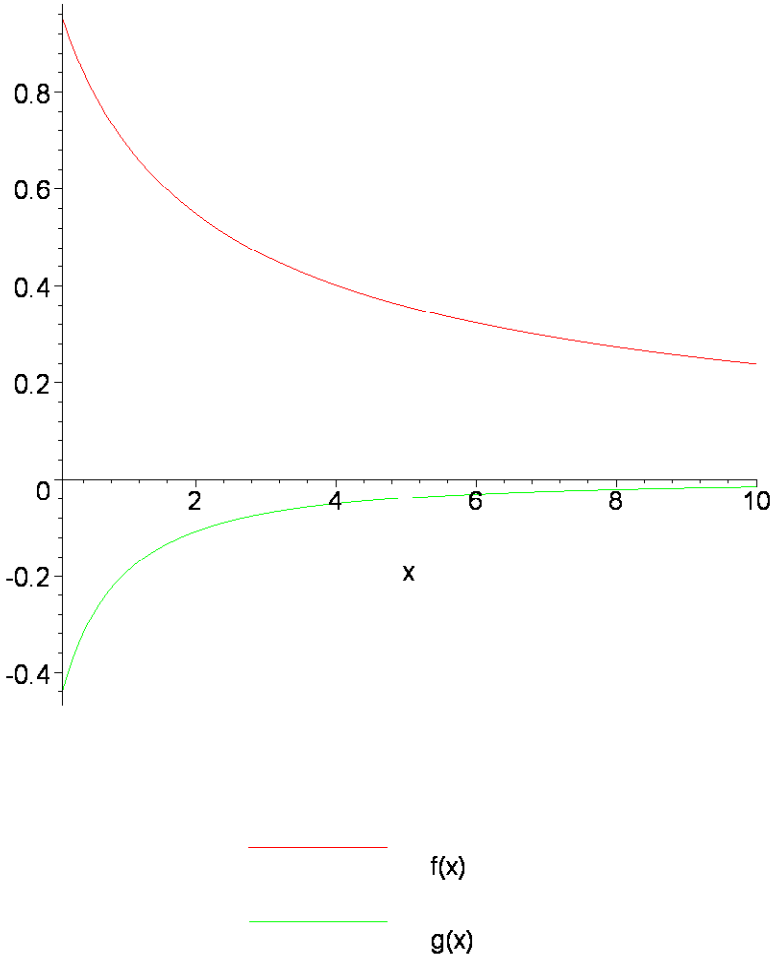
```
> f_ := diff(f(x),x);
```

$$f\_ := \frac{1}{(x+1)\,x} - \frac{\ln(x+1)}{x^2}$$

```
> g:=unapply(f_,x);
```

$$g := x \to \frac{1}{(x+1)\,x} - \frac{\ln(x+1)}{x^2}$$

```
> plot([f(x),g(x)],x=0.1...10,legend=["f(x)","g(x)"]);
```




```
> Limit(g(x),x=infinity) = limit(g(x),x=infinity);
```

$$\lim_{x \to \infty} \frac{1}{(x+1)\,x} - \frac{\ln(x+1)}{x^2} = 0$$

```
>
```