

► #49

► #53

▼ #54

```
> f := 1/x^2/(x-2);
```

$$f := \frac{1}{x^2(x-2)} \quad (3.1)$$

```
> convert( f, parfrac, x );
```

$$-\frac{1}{4x} + \frac{1}{4(x-2)} - \frac{1}{2x^2} \quad (3.2)$$

```
> F := int( f, x );
```

$$F := \frac{1}{4} \ln(x-2) + \frac{1}{2x} - \frac{1}{4} \ln(x) \quad (3.3)$$

```
> F := (ln(abs((x-2)/x)))/4 + 1/2/x;
```

$$F := \frac{1}{4} \ln\left(\left|\frac{x-2}{x}\right|\right) + \frac{1}{2x} \quad (3.4)$$

```
> plot( [f,F], x=-2..3, y=-10..10, discontin=true, legend=["y=f(x)",  
"y=F(x)"], title="Graph for Section 7.4 #54", linestyle=  
[dash,solid] );
```



