```
> f := x    (1 - cos(x^2 - 1)) / (x^4 - 1);
```

$$f := x \quad \frac{1 - \cos(x^2 - 1)}{x^4 - 1} \tag{1}$$

```
> evalf(f(1/2));
```

$$-0.2861985399 \tag{2}$$

```
> limit(f(x), x = 1);
```

$$0 \tag{3}$$

```
> limit(f(x), x = -1, 'left');
```

$$0 \tag{4}$$

```
> diff(f(x), x);
```

$$\frac{2x\sin(x^2 - 1)}{x^4 - 1} - \frac{4\left(1 - \cos(x^2 - 1)\right)x^3}{\left(x^4 - 1\right)^2} \tag{5}$$

```
>
```