

> restart,

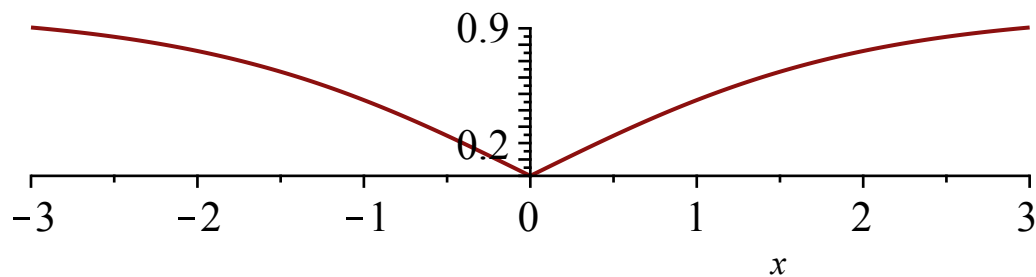
> $f := x \rightarrow \begin{cases} \text{evalf}\left(\frac{e^{-x}}{1+e^{-x}} - .5\right) & x \leq 0 \\ \text{evalf}\left(\frac{e^x}{1+e^x} - .5\right) & x > 0 \end{cases}$

$f := x \rightarrow \text{piecewise}\left(x \leq 0, \text{evalf}\left(\frac{e^{-x}}{1+e^{-x}} - 0.5\right), 0 < x, \text{evalf}\left(\frac{e^x}{1+e^x} - 0.5\right)\right)$ (1)

> f(-10)

0.4999546021 (2)

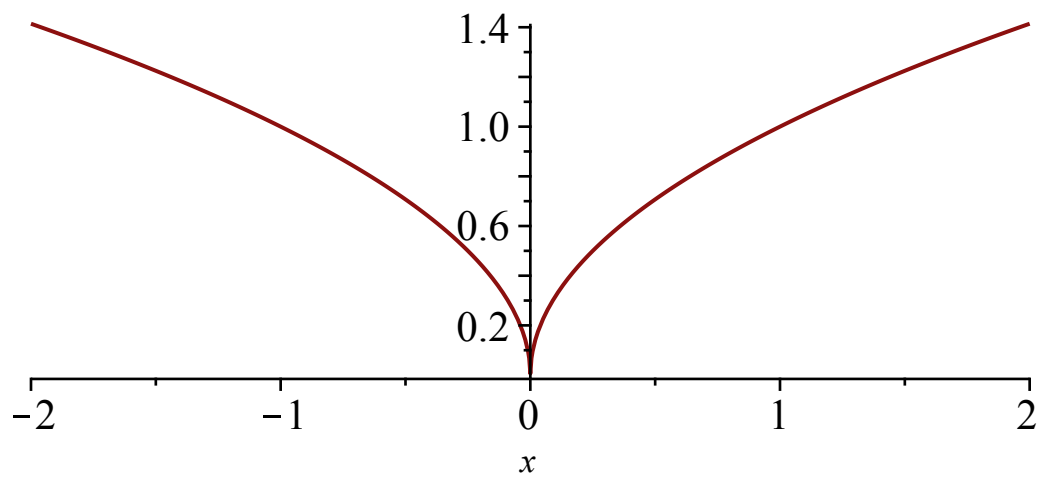
> plot(2·f(x), x=-3..3)



> a := .5

a := 0.5 (3)

> plot(|x|^a, x=-2..2)

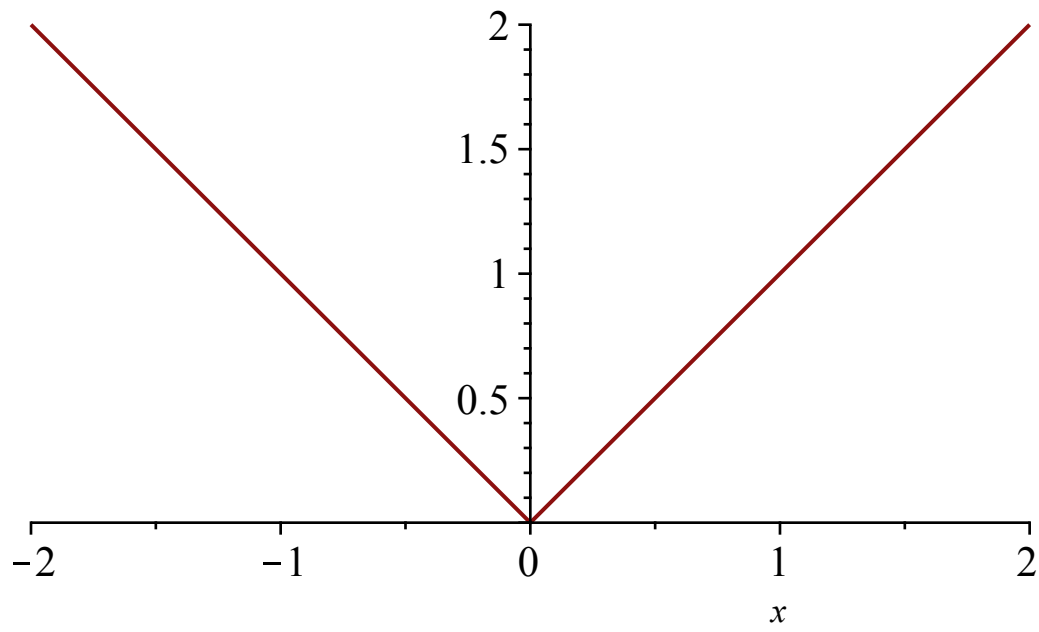


```
> a := 1
```

$a := 1$

(4)

```
> plot(|x|^a, x=-2..2)
```

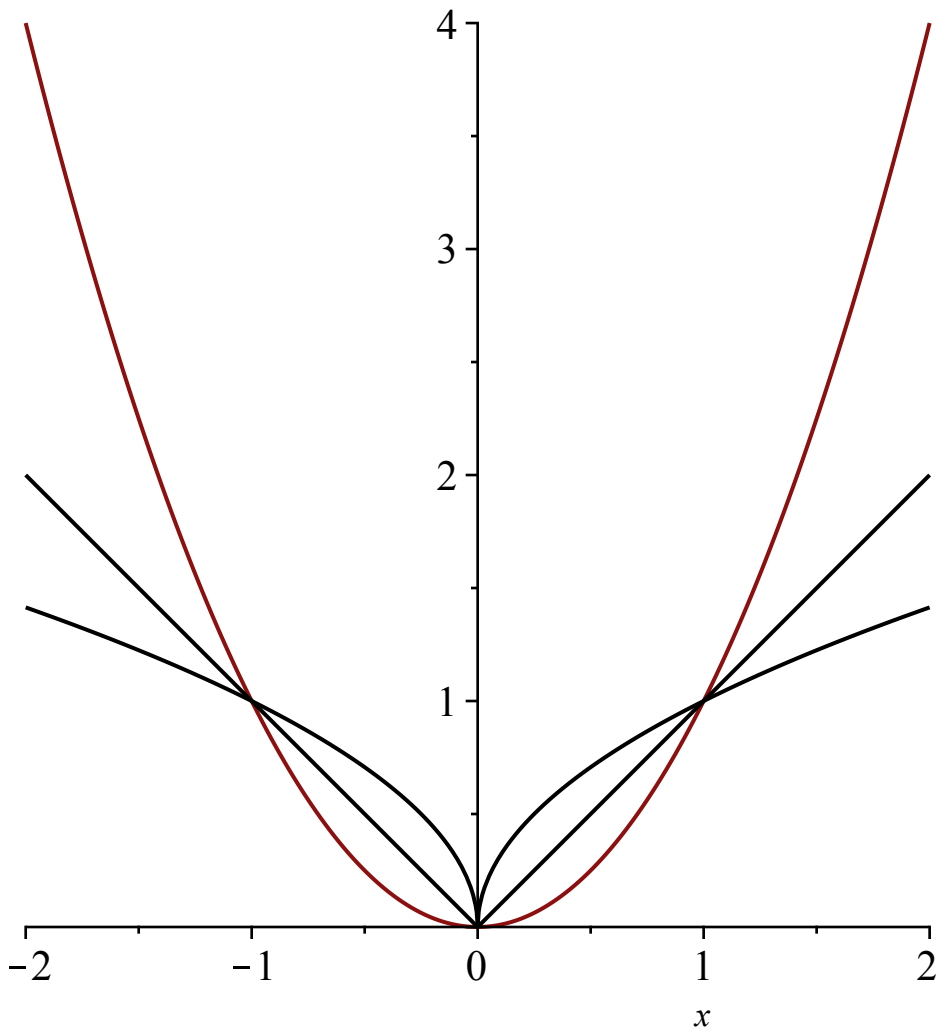


```
> a := 2
```

```
a := 2
```

(5)

```
> plot(|x|^a, x=-2..2)
```



```
> a := 3
```

```
a := 3
```

```
> plot(|x|^a, x=-2..2)
```

(6)

