

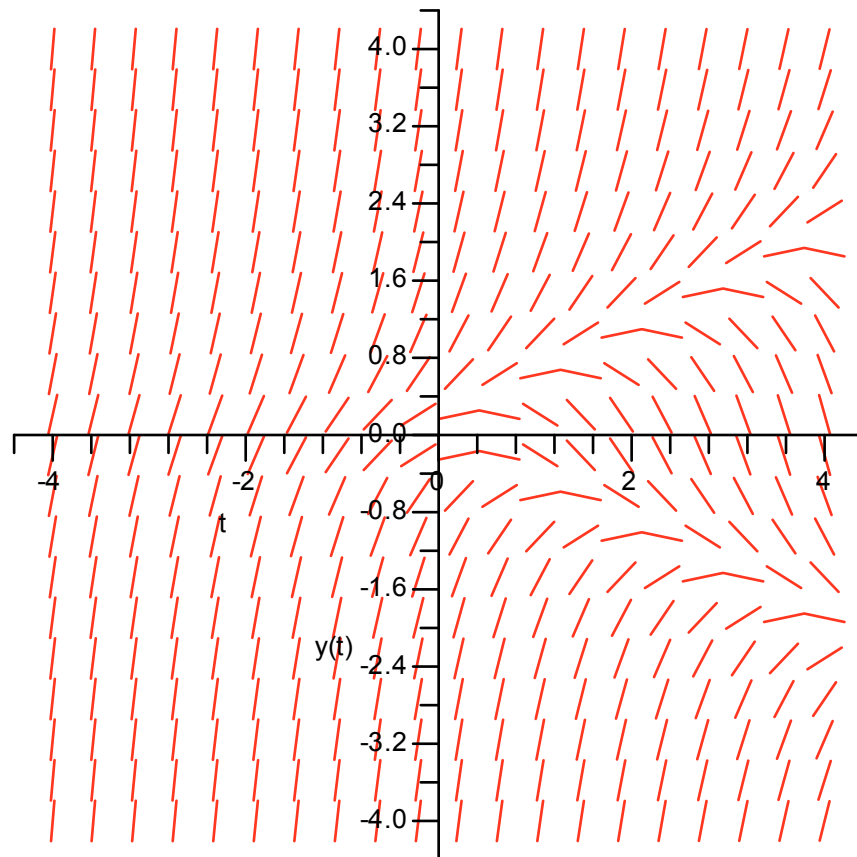
```
restart;
with( DEtools ):
with( plots ):
```

```
ode1 := diff( y(t), t ) = 2 * abs(y(t)) - t;
```

$$\frac{d}{dt} y(t) = 2 |y(t)| - t$$

(1)

```
DEplot( ode1, [y(t)], t=-4..4, y=-4..4, arrows=LINE );
```

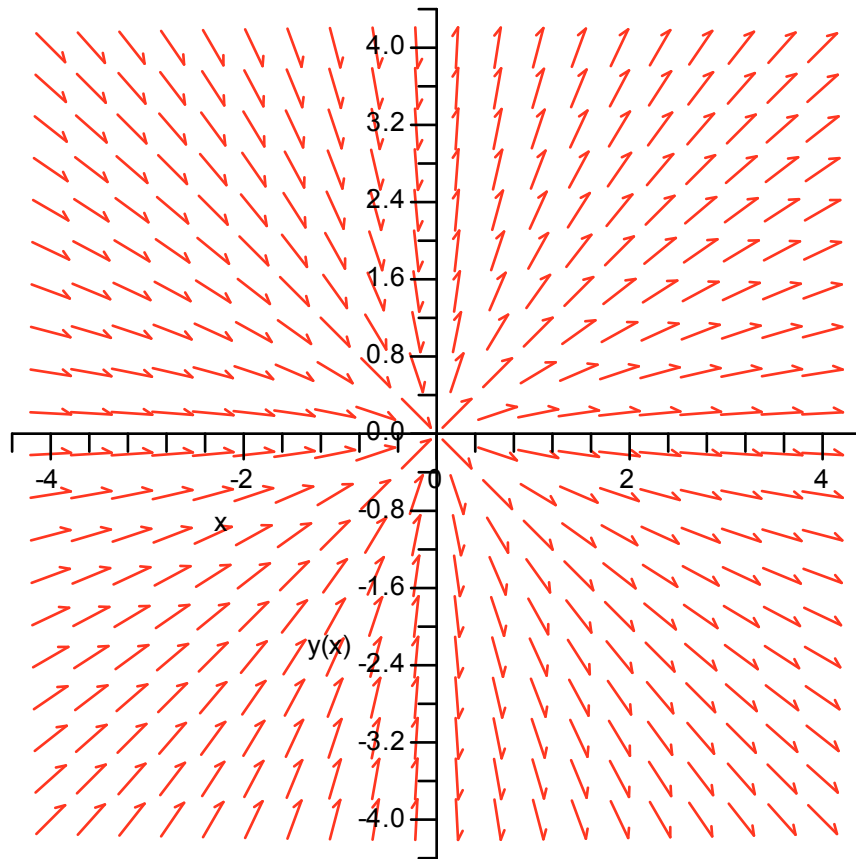


```
ode2 := diff(y(x), x) = y/x;
```

$$\frac{d}{dx} y(x) = \frac{y}{x}$$

(2)

```
DEplot(ode2, [y(x)], x=-4..4, y=-4..4);
```

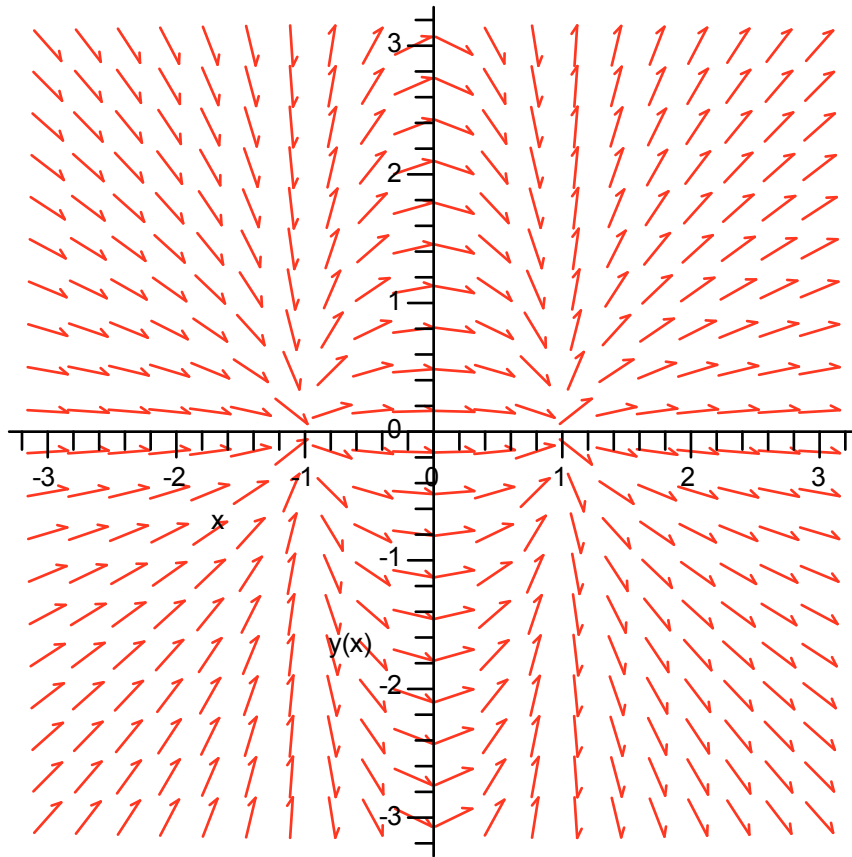


$$ode3 := \text{diff}(y(x), x) = \frac{(x \cdot y)}{x^2 - 1};$$

$$\frac{d}{dx} y(x) = \frac{xy}{x^2 - 1}$$

(3)

`DEplot(ode3, [y(x)], x = -3..3, y = -3..3);`



`curve := [[y(2)=2]] ;`

`[[y(2)=2]]`

(4)

`DEplot(ode3, [y(x)], x =-4..4, y=-4..4, curve);`

