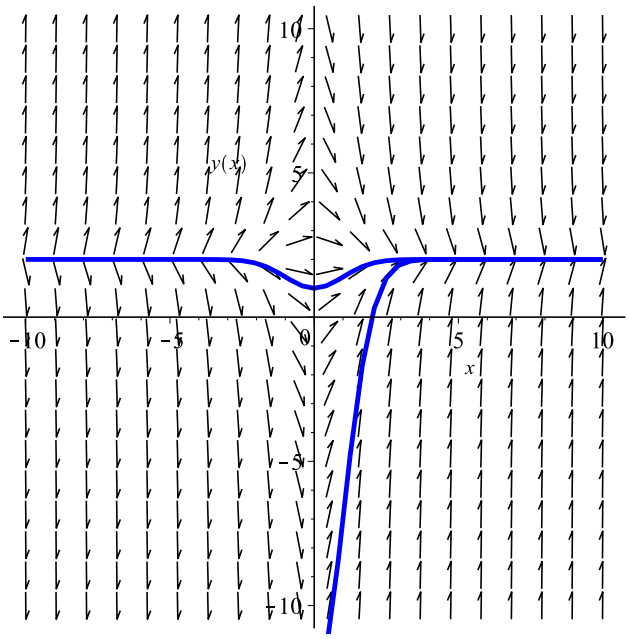
```
with(plots):
with(DEtools):
DEplot([diff(y(x),x)=x·(2−y(x))],[y],x=-10..10,y=-10..10,[y(0)=1,y(2)=0],color
    =black,linecolor=blue)
```



$$\lim_{t \to \infty} 2 \cdot \mathrm{Pi} \cdot \int_1^t \frac{1}{x} \cdot \sqrt{1 + \frac{1}{x^4}}\, dx$$

$$\infty \qquad \textbf{(1)}$$

$$\mathit{assume}(t > 2)$$

$$2 \cdot \mathrm{Pi} \cdot \int_1^{\infty} \frac{1}{x} \cdot \sqrt{1 + \frac{1}{x^4}}\, dx$$

$$\pi\ \infty \qquad \textbf{(2)}$$