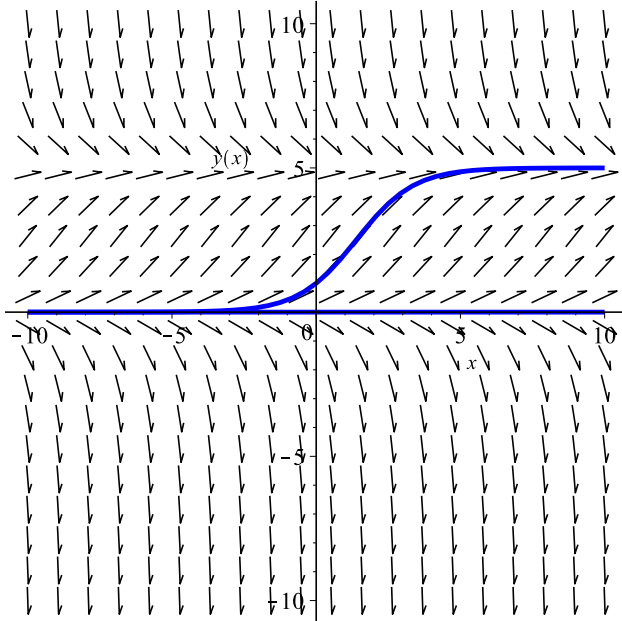


with(*plots*) :

with(*DEtools*) :

```
DEplot( [ diff(y(x), x) = y(x) * ( 1 - 1/5 * y(x) ) ], [y], x=-10..10, y=-10..10, [y(0) = 1, y(3) = 0],  
color = black, linecolor = blue )
```



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

∞

(1)

assume($t > 2$)

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

$\pi \infty$

(2)