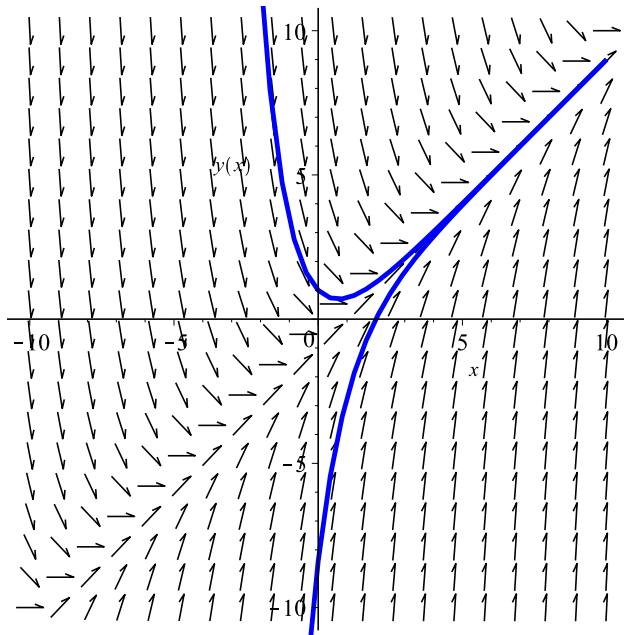


with(*plots*) :
with(*DEtools*) :
DEplot([diff(y(x), x) = (x - y(x))], [y], x=-10..10, y=-10..10, [y(0) = 1, y(2) = 0], color = black,
linecolor = blue)



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

∞

(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)