Equazione iniziale: y'=y²

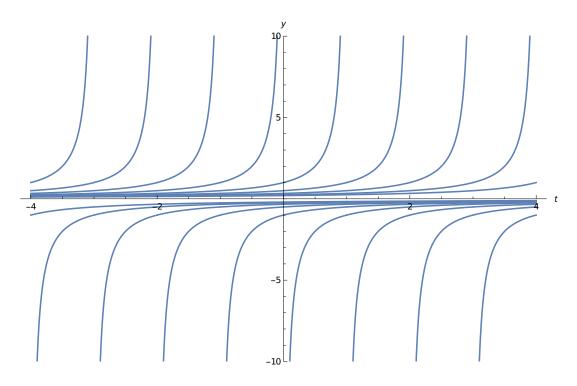
 $solution = DSolve[y'[t] == y[t]^2, y[t], t]$

$$\left\{\left\{y[t] \to \frac{1}{-t-c_1}\right\}\right\}$$

f[t] = y[t] /. solution[1]

 $F[t] = Table[f[t] /. c_1 \rightarrow j, \{j, -5, 5\}]$

 $\mathsf{Plot}[\mathsf{F}[\mathsf{t}],\, \{\mathsf{t},\, -4,\, 4\},\, \mathsf{AxesLabel} \rightarrow \{\mathsf{t},\, \mathsf{y}\},\, \mathsf{PlotRange} \rightarrow \{-10,\, 10\}]$



Condizione data: y (0) = 1

cauchy = DSolve[$\{y'[t] == y[t]^2, y[0] == -1\}, y[t], t$]

$$\left\{\left\{y[t] \to \frac{1}{-1-t}\right\}\right\}$$

g[t] = y[t] /. cauchy[1]

 $Plot[g[t], \{t, -4, 4\}, AxesLabel \rightarrow \{t, y\}, PlotRange \rightarrow \{-10, 10\}]$

