DIFFERENTIAL EQUATIONS, PYTHON EXERCISE 5

(1) Use the *solve_ivp* function from the *scipy.integrate* package to solve the IVP
$$y' = \frac{3t^2}{2-y}, \quad y(0) = 0$$
on the interval $[0, 10]$.

(2) Draw a graph of resulting numerical solution.

(3) Do you trust the numerical soltuion? Draw the slope field and look at the analytical solution as well.