For all problems, do the following:
a. Find approximate values of the solution of the given IVP at $t=0.1,0.2,0.3,0.4$ using the Euler method with $h=0.1$.
b. Repeat part a with $h=0.05$.
c. Compare 1 and 2 to the true solution $\phi(t)$.
d. Find a formula for the local truncation error in terms of $t$ and the solution $\phi$ for both values of $h$.

1. $y^{\prime}=2 y-1, \quad y(0)=1$
2. $y^{\prime}=2-t+2 y, \quad y(0)=1$
3. $y^{\prime}=5-3 \sqrt{y}, \quad y(0)=2$
