## Part I Problems

Problem 1: Use the Euler method and the step size .1 on the IVP
$y^{\prime}=x+y^{2}, \quad y(0)=1$, to calculate an approximate value for the solution $y(x)$ when $x=.1, .2, .3$. (Make a table.) Is your answer for $y(.3)$ too high or low?

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### 18.03SC Differential Equations

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