Name:
Problem 1 (10 points): This is problem 7 from Section 10.2.
Find the general solution for the differential equation

$$
2 \frac{d y}{d x}-2 x y-x=0
$$

**Please put away your homework before solving this problem.**
Problem 2 (10 points): Use Euler's method to approximate the indicated function value, using $h=0.1$.

$$
\frac{d y}{d x}=1+y \quad y(0)=2
$$

Find $y(0.2)$.

