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\text { Math } 3280 \text { Worksheet 6: Euler's Method }
$$

Group members (2 to 4):
(1) Use Euler's method to estimate $y(1)$ if $y(0)=1$ and $\frac{d y}{d x}=$ $\frac{y}{2-x}+x^{2}$, using 1,2 , and 4 steps.
(2) Find the exact value of $y(1)$ by solving the initial value problem (note that the ODE is linear).

