

**MATH 373: CLASS 20**

1. EXERCISE

1) Given  $y' = 1 + (t - y)^2$ ,  $2 \leq t \leq 3$ ,  $y(2) = 1$ ,  $h = 0.5$ .

Use Taylor's method of order two to approximate  $y(\frac{5}{2})$  and  $y(3)$ .