

# Math 242–HW 5 Rubric

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There are 23 points on this assignment.

1. 8 points. 1 point for choosing a good  $u$ , 2 points for correctly computing  $du$ , 2 points for correctly substituting into the integral, 2 points for correctly computing the integral after substituting, and 1 point for giving the expression in terms of  $t$  rather than  $u$ .
2. 12 points. 2 points for correctly separating variables. 6 points total for integrating both sides (i.e. 3 points to each side). The  $y$  integral can be done either by substitution or inspection (i.e. they just look at it and know the integral). 1 point for substituting the initial condition and 2 points for using it to solve for the integration constant. 1 point for stating the solution, having substituted in for their integration constant.
3. 2 points for completion.
4. 1 point for completion.