**Engineering Mathematics Homework 1 - Solution**

1. 

Sol:





1. 

Sol:

 





1. 

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1. we identify and . We see that and ∂f/∂y are both continuous in the regions of the plane determined by y < −3 and y > 3 with no restrictions on x.
2. T
3. F
4. F
5. F
6. T