

Calculus II - Test #4- Review

1. Need to know

1. Be able to compute arclengths.
2. Be able to compute surface area.
3. Be able to do work problems
4. Be able solve a DE using separation of variables, finding a general solution and a particular solution Be able to plot an interpret a particular solution.
5. Be able to do word problems using all of the above including “math with letters” word problems

2. Practice problems for the test (and the final).

From the book:

- p 447-449 # 6, 8, 10, 14, 16, 29, 30, 46, 49
- p 456-458 #11, 12, 15, 20, 23, 25, 38, 39

From the supplement.

- Exponential growth and decay: 1, 2, 3, 4, 5
- Newton’s law of cooling: 1, 2, 3, 4, 5