Possible projects - due Monday November 28th:

1. Gibbs Phenomenon, page 37, problems 25, 26, 27, 28, Tom Hirst, Brian Blackwell

2. Term by term differentiation and integration of Fourier series, page 48, problems 25, 26, 27, 28, 29, 30, 31, 32, 33, Derek Pickett and Diego Egoavil

3. Optimization problem, page 59, pr.18, Ayse Esen and Carly Fish

4. Complex Exponential Function, page 67, problems 16, 17, 18, taken by Lei Cai

5. Damped Vibrations of a string, page 124, problems 12, 13, 14, 15, three students


7. A problem with positive and negative values of the separation constant, page 153, problems 17, 18, Nick Tobaben and Charles Sprouse

8. Bar with two radiating ends, page 154, problems 19, 20, Lauren Beesley and Alex Fetterman

9. Three-dimensional Laplace's equation and Dirichlet problems, page 169, problem 12, 13, Ben Weintrub and Qi Chen

10. Radially symmetric heat equation on a disk, page 206, problems 10, 11, Matt Bellus

11. Two-dimensional heat equation, page 216, problems 11, 12, Yuka Honzawa and William Bryant

12. Two-dimensional heat equation with a non-homogeneous boundary condition, page 226, problems 25, 26 and 27, three students

13. Poisson integral formula on a disk, page 227, problems 28, 29, Ryan Barnhart

14. Lateral surface with nonzero temperature, page 230, problems 8 and 9, Aaron Joy


16. Simply supported beam, page 357, problems 7 and 8, Travis Lechtenberg

17. Eigenvalues with multiplicity two, page 358, problems 11, 12, 13, Megan Miller

18. Vibrating clamped-free beam, page 359, problems 14 and 15, two students