Math 152, Fall 2009, 30 Homework Problems, for the Final Review

Your review for the final examination can start with these problems. You have worked many of them before. For an in-depth review see the two posted midterms and the three sheets of additional review problems (posted with solutions).

Section	Problem(s)	Topic
§6.1	17	Area between Curves
§6.2	45	Average Values
§6.3	51	Volumes of Revolution
§6.5	15	Work
§7.1	42	Numerical Integration
§7.2	9	Integration by Parts
§7.3	47	Trigonometric Integrals
§7.4	35	Trigonometric Substitution
§7.6	13	Partial Fractions
§7.7	80	Improper Integrals
§8.1	9	Arc Length
§8.4	33	Taylor Polynomials
§9.1	31	Initial Value Problems
§9.2	5	Newton's Law of Cooling
§9.3	9	Slope Fields
§10.1	51	Sequences
§10.2	16,39	Divergence Test, Geometric Series
§10.3	10,39	Integral Test, Limit Comparison
§10.4	7	Absolute and Conditional Convergence
§10.5	23	Ratio Test
§10.6	15	Interval of Convergence
§10.7	23,24,47	Maclaurin series: computation, applications
§11.1	41	Parametric Equations
§11.2	13	Arc Length Revisited
§11.3	8	Polar Coordinates
§11.4	7	Area in polar coordinates