

Review Exam 1 Math 182

- ① Proof of weighted Mean-Value Theorem for integrals
- ② Related rates problems from homework and
Stewart pg 267 # 18, 26
Apostle pg 177 Example 1.
pg 180 # 20, 23
- ③ Statement of the Rational Root theorem from Wikipedia.
- ④ Maximization/minimization problems from homework and
Stewart pg 314 # 31, 41
Ellis & Gulick pg 198 # 14, 35
- ⑤ Integration techniques: substitution, trigonometric identities, integration by parts and partial fractions
~~Stewart~~ pg 223 # 12, 19
Apostle pg 236 # 16, 17, 24
pg 258 # 34, 43
pg 267 # 1, 11, 23, 24
- ⑥ Differentiation of trigonometric functions, exponential, logarithms and inverse trigonometric functions.
~~Stewart~~ pg 236 # 5, 14
Apostle pg 257 # 12, 17, 19, 25
- ⑦ Extra credit
~~Stewart~~ pg 269 # 10, 21, 22, 23
Apostle