

## Review 4 Math 261

Any term in **bold face** know the definition or statement of the Theorem well enough to state it on the test. The definition you give should be very similar to the one in the book or one with similar detail.

**Section 16.4 Green's Theorem** be able to use Green's thm in either direction Sample problems: Example 1,3 Exercise 7

**Section 16.5 curl  $\mathbf{F}$ ,  $\text{div}(\mathbf{F})$** , Theorem 4 vector form of Green's Theorem Sample problems: Example 3 Exercise 2,15

**Section 16.6 parametric surface, surface Area, equation of tangent plane** Sample problems: Example 11, **proof of equation 9** Exercise 33,39

**Section 16.7** Be able to apply equations 2,4,9,10 **proof of equation 10** Sample problems: Example 2,5 Exercise 7,23

**Section 16.8 Stokes Theorem** Sample problems: Example 1,2,Exercise 3,7

**Section 16.9 Divergence Theorem** Sample problems: Example 1,2 Exercise 2,12