

Math 241 - Section C1H - Homework 13

Assigned: 4/17/08

Due: 4/23/08 at the start of class.

Notation: Exercise a.b.c stands for Exercise c from Section a.b.

Problems to hand in:

- (1) 8.1.9.
- (2) 8.1.10.
- (3) 8.1.17.
- (4) Let $\vec{F}(x, y) = (-y/2, x/2)$. Let \vec{c} be the n -gon with vertices $(\cos(2\pi k/n), \sin(2\pi k/n))$, $0 \leq k \leq n - 1$ and counterclockwise orientation. Compute

$$\int_{\vec{c}} \vec{F} \cdot d\vec{s}.$$