

King Fahd University of Petroleum & Minerals  
Department of Mathematics and Statistics  
(Semester 132) Math 301.2 Quiz # 2

Name: \_\_\_\_\_ I.D. # \_\_\_\_\_ Sr. # \_\_\_\_\_

Let  $C$  be the boundary of the region in the first quadrant determined by the graphs of  $y=0$ ,  $y=\sqrt{x}$ , and  $y=-x+2$ . Verify Green's theorem by evaluating both sides of

$$\oint_C -2y^2 dx + 4xy dy = \iint_R 8y dA.$$