

King Fahd University of Petroleum and Minerals  
Math. & Stat. Department  
171-Math 202 Quiz (1)

Name	ID	SEC
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Q1) Verify  $\text{div}(\text{curl } \mathbf{F}) = 0$ .

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Q2) Find the work done by the force  $\mathbf{F}(x,y,z)=(x+2y)\mathbf{i}+(6y-2x)\mathbf{j}$  acting counterclockwise once around the triangle  $(1,1)$ ,  $(3,1)$  and  $(3,2)$ .