"QUIZ" for Lecture 22

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E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q22FirstLast.pdf) ASAP BUT NO LATER THAN Nov. 16, 8:00pm

Evaluate the surface integral R R S **F** · d**S** for the given vector field **F** and oriented surface **S**.

F(x, y, z) = <xy , yz , zx >,

and S is the part of the paraboloid z = 1 − x^2 − y^2 that lies above the square 0 ⩽ x ⩽ 1 , 0 ⩽ y ⩽ 1 and has upward orientation.