"We wish to prove the operator identity

Sds nog = Sdx vog

where 'o' is any allowed product (ordinary, dut, or and) and g is a compatible scalar or vector.

a) From Gauss' theorem

Sdsnot = Sdv to F

b) From I o /

Sds Ax = Sdy Bx =

d) From IO2

Sdsnp = Sdx dp

9ED