

Name:
J#:
Date: <b>2017 July 10</b>

Exercise Type:

**Quiz**

Standard: This student is able to...	Mark:
<b>C08: TripleInt.</b> Compute and apply triple integrals.	
4/4	★ reattempt due on:

Let  $D$  be the solid bounded by the sphere  $x^2 + y^2 + z^2 = 9$ . Express  $\iiint_D \sqrt{x^2 + y^2 + z^2} \, dV$  as a triple iterated integral of the variables  $x, y, z$ . (Do not solve this integral.)

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Standard: This student is able to...	Mark:
<b>S08: TransVar.</b> Compute and apply a transformation of variables.	
1/3	★ reattempt due on:

Let  $\mathbf{T}(u, v) = \langle u + v + 1, u - 2v + 3 \rangle$  be the transformation from the unit square  $G$  with vertices  $\langle 0, 0 \rangle, \langle 1, 0 \rangle, \langle 1, 1 \rangle, \langle 0, 1 \rangle$  in the  $uv$  plane to the parallelogram  $R$  with vertices  $\langle 1, 3 \rangle, \langle 2, 4 \rangle, \langle 3, 2 \rangle, \langle 2, 1 \rangle$  in the  $xy$  plane. Use this transformation to calculate  $\iint_R (2x + y) \, dA$ .