

Name:
J#:
Date: <b>2017 July 17</b>

Exercise Type:

**Quiz**

Standard: This student is able to... <b>C09: PolCylSph.</b> Apply polar, cylindrical, and spherical transformations of variables.  4/4	Mark:  <hr/>
★ reattempt due on:	

Let  $D$  be the portion of the solid  $x^2 + y^2 \leq 9$  where  $0 \leq z \leq 1$  and  $y \geq |x|$ . Rewrite the triple integral  $\iiint_D x \, dV$  as a triple iterated integral of cylindrical coordinates. (Do not solve this integral.)

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Standard: This student is able to...	Mark:
<b>C10: VectField.</b> Analyze vector fields, including computing curl and divergence.	
2/4	★ reattempt due on:

Find the curl and divergence of the vector field  $\mathbf{F}(x, y) = \langle xz, 2xy, 4xz \rangle$ . Then compute the curl and divergence of the vector field at the point  $\langle 0, -1, 2 \rangle$ .