

Name:
J#:
Date: 2017 July 12

Exercise Type:

Quiz

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

Let $\mathbf{T}(u, v) = \langle 3u - v + 2, 3u + 2v - 1 \rangle$ be the transformation from the unit triangle G with vertices $\langle 0, 0 \rangle, \langle 1, 0 \rangle, \langle 1, 1 \rangle$ in the uv plane to the triangle R with vertices $\langle 2, -1 \rangle, \langle 5, 2 \rangle, \langle 4, 4 \rangle$ in the xy plane. Use this transformation to calculate $\iint_R (y - x) dA$.

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Standard: This student is able to...	Mark:
C09: PolCylSph Apply polar, cylindrical, and spherical transformations of variables.	
1/4	★ reattempt due on:

Find $\iint_R \sqrt{9x^2 + 9y^2} dA$ where R is the quarter-disk where $0 \leq y \leq \sqrt{4 - x^2}$ and $0 \leq x \leq 2$.