\times and (π,π) .

Evaluate | ws(x-y)sin (x+y)dA where R"is the triangle in the Xy-plane with vertices at 10,0), (71,-17)

Vice the change of variables to answer this question.

$$(4) \begin{cases} N = X - Y \\ V = X + Y \end{cases}$$

$$(4) \begin{cases} V = X + Y \\ V = X + Y \end{cases}$$

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$$\pi = \frac{11}{2}$$

$$2\pi = 11$$

$$U = \frac{U + V}{2} - y$$
 $2u = u + v - 2y$
 $u - v = -2y$

$$\left[\frac{V-U}{2} = y\right] \frac{V-U}{2} = 7$$
 $V-U = 27$

dxdy= |Jlu,v) | dudv

$$J(u,v) = \begin{bmatrix} \frac{3x}{3u} & \frac{3x}{3v} \\ \frac{3y}{3u} & \frac{3y}{3v} \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} \end{bmatrix} = (\frac{1}{2})(\frac{1}{2}) - (\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2}) - (\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{2})(\frac{1}{2})(\frac{1}{2}) = (\frac{1}{2})(\frac{1}{$$

$$= \left(\frac{1}{2}\right)\left(\frac{1}{2}\right) - \left(-\frac{1}{2}\right)\left(\frac{1}{2}\right)$$

$$X = \frac{1}{2} \frac{3x}{3y} = \frac{1}{2}$$

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Leady step #2

$$V=-U+VT$$
 $V=X+Y$
 $V=$

$$z = \frac{1}{2} \int_{0}^{2\pi} \cos u \left(\frac{1}{100} \cos (2\pi - u) - 1 \right) du$$

$$z = -\frac{1}{2} \int_{0}^{2\pi} \cos u \cos (2\pi - u) - \cos u du$$

$$z = -\frac{1}{2} \int_{0}^{2\pi} \cos^{2} u du + \frac{1}{2} \int_{0}^{2\pi} \cos u du$$

$$z = -\frac{1}{2} \int_{0}^{2\pi} \frac{1 + \cos(2u)}{2} du + \frac{1}{2} \sin u du$$

$$z = -\frac{1}{4} \left(u + \frac{\sin 2u}{2} \right) \int_{0}^{2\pi} du$$

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