```
\begin{array}{l} \overset{??}{V} = \\ f(x,y) \\ R = \\ f(x,y) dA \\ f(x,y) \geq \\ g(x,y) \\ \text{Yolden} \\ \text{between} \\ f(x,y) \\ \text{and} \\ g(x,y) \end{array}
 \begin{array}{l} \underset{g(x,y)}{\text{on}} \\ V =_R f(x,y) dA -_R g(x,y) dA =_R \big( f(x,y) - g(x,y) \big) dA. \end{array} 
          _{b}etween_{s}urfacesVolumeBetweenSurfacesLet and be continuous functions on a closed, bounded region, where \geq
between surfaces V of an g(x,y) (x,y) R Y f g R V =_R (f(x,y)-g(x,y))dA.
          _trip1Finding volume between surfacesFindthe volume of the space region bounded by the planes and in the <math>^{st}
 \begin{array}{l} g - \\ 4) dA \\ = \\ \int_0^2 \int_0^{4-2x} (12 - 6x) dx \end{aligned} 
 3y) dydx
 \begin{array}{l} = \\ 16u^3 \\ 16 \\ 0 \\ 0 \\ 0 \end{array} \Big] (8 - 3x - 2y - (3x + y - 4)) dy dx. 
8-3x-2y-(3x+y-4) = \int_{3x+y-4}^{8-3x-2y} dz.
\int_0^2 \int_0^{4-2x} \left(8-3x-2y-(3x+y-4)\right) dy dx = \int_0^2 \int_0^{4-2x} \left(\int_{3x+y-4}^{8-3x-2y} dz\right) dy dx.
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