MATH 2020 HUI solution. Questions: 15.1: 15, 20, 27 15-2: 11, 22, 31, 40, 49, 61, 78 15-1.15). Is Sircyes dy dec = fo [x(y) ex ] y=2 dx  $= \left(\frac{3}{2}\right)(1)$   $= \frac{3}{2}$ 15. (. 20) Shige (dA = So [tan xey Jeso dy = Is tan y dy = [y lan y - \frac{1}{2} log (14y2)]5 15.1.27) required volume

The rive

= \$\int\_{0.5} \int\_{0.5} \text{cosy dy dx}\$ = So [2 sinx siny] y= o dx =2[stay]y= o fo sinx dx = 2 [siny] y20 [- cos x] x20 = 2 (\frac{E}{2})(1)



