We an Aso review problems from WS4 on Tuesday.

Selected problems: 16,26,4a Student suggestions:

16: Evaluate  $S_R f(x,y) dA$  for  $f(x,y) = 2x - 4y^3$ ,  $R = [4,5] \times [0/3]$ .

Rectingular integral, just plug in the bounds of evaluate. 45×55, 05/53

 $2nS = \int \left( \int (2x-4y^3) dx \right) dy = \frac{4y^3}{6} \text{ is a content w.r.d. to} x$ 

 $\int_{0}^{3} \left[ x^{2} - 4y^{3}x \right] \left[ 4 \right] dy = \int_{0}^{3} \left[ (5^{2} - 20y^{3}) - (4^{2} - 16y^{3}) \right] dy$ 

 $=\int_{0}^{3} (9-44)^{3} dy = (9y-44)^{3} =$   $9.3-3^{4}=27-81=-54$ 

Tuesday DW4 problems: