

Worksheet January 21

1. Evaluate $\iint_D \sin(x^2 + y^2) dA$ where D is the region inside the circle $x^2 + y^2 = 1$ and above $y = |x|$.

2. Find the area of the region inside the circle $x^2 + y^2 = 4$ and above the line $y = 1$.