

WRITE YOUR NAME:

MAC 2313 Quiz 8  
Tuesday February 13th

Find the domain of the function  $f(x, y) = \ln(25 - x^2 - y^2)$ .

$$\text{Must have } 25 - x^2 - y^2 > 0$$

$$25 > x^2 + y^2$$

$$x^2 + y^2 < 25 \quad (\text{interior of circle with radius } 5)$$