

PreAP PreCal Log Week 6.4

1. What is the area of the region defined by the inequality $x^2 + y^2 + 4x - 6y \leq 3$?

2. What is the area enclosed by the conic $9x^2 + 25y^2 + 72x - 250y + 544 = 0$?

3. Find the minimum value of the conic $\left(\frac{x-4}{7}\right)^2 + \left(\frac{y+5}{4}\right)^2 = 1$ and where it occurs.