Exercise 1. Find the area of the region inside the circle $r = 4\cos\theta$.

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

Exercise 2. Evaluate the integral $\int \int_R \sqrt{\frac{x-y}{x+y+1}} dA$, where R is the square with vertices (0,0), (1,-1), (2,0), and (1,1). Use the transformation u = x - y and v = x + y. 0=x-x J J U N=X+ X Test 15.4-15.7 16.1-16.3 Meview Level Cores/ Surfaces · Gruph · Greediend 7 Directoral Der Tangent Daves at point on Surface Chain Ruc Implicit Ditt fy, fy Max/Min prob 2nd Dervotve Pouble Integration -> filregen (Suffer) dx - Integreting AurogeValu - Re-ordering - Conversion to Polar -Avecal Volume Calclotons