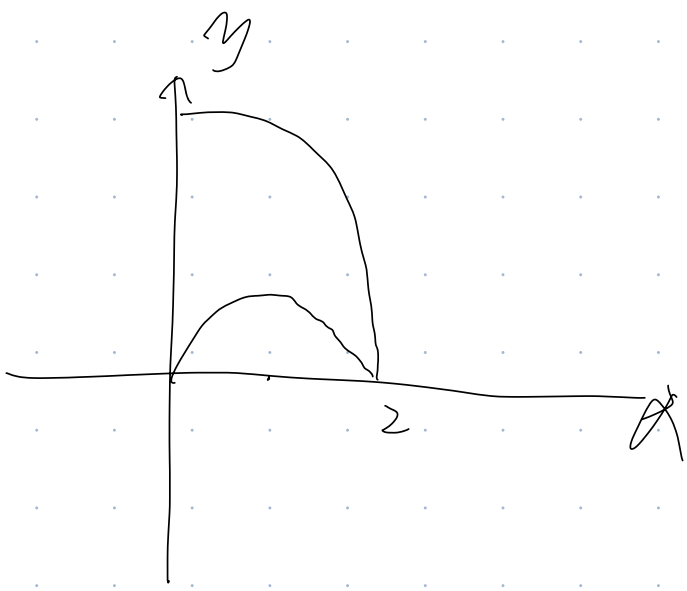
$\sin\pi + \sin\pi$

$f(1,1) = 3$

$f(x,y) - 3 > 0$



$\theta \in [0, \frac{\pi}{2}]$

$r \in [2\cos\theta, 2]$

$r^2 = 2r\cos\theta$

$x^2+y^2 = 2x$

$x^2+y^2-2x+1 = 1$

$x = r\cos\theta$

$y = r\sin\theta$

$x^2+y^2 = r^2$

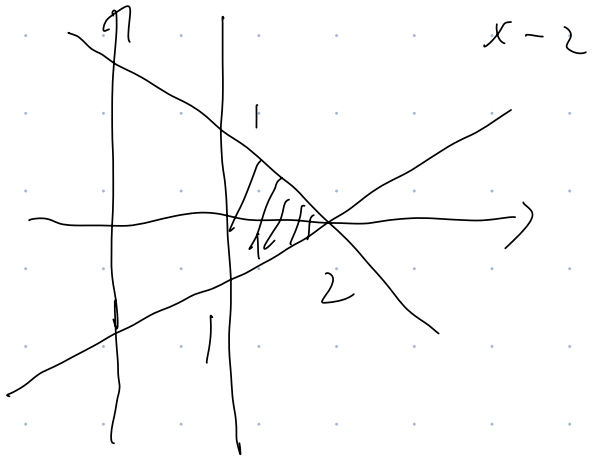
$(x-1)^2+y^2 = 1$

$$\int_0^2 dx \int_{\sqrt{}}^{\sqrt{4-x^2}} f$$

$2x+x^2$

$y = -x + 2$

$x - 2$



设买到甲、乙、丙厂产品分别为 B_1, B_2, B_3

设 A 为买到一等次品

$$P(A) = P(AB_1) + P(AB_2) + P(AB_3)$$

$$= P(B_1)P(A|B_1) + P(B_2)P(A|B_2) + P(B_3)P(A|B_3)$$

$$= \frac{1}{4} \times 0.02 + \frac{1}{4} \times 0.01 + \frac{1}{2} \times 0.03$$

$$P(B_1|A) = \frac{P(B_1A)}{P(A)} = \frac{P(B_1)P(A|B_1)}{\frac{1}{4}}$$