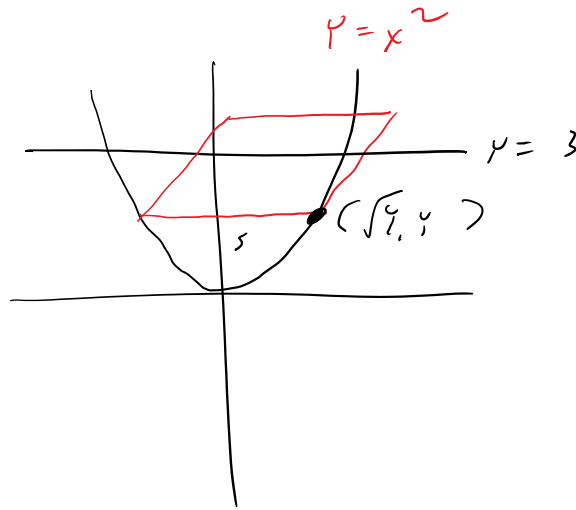


(13)



$$x = \sqrt{y}$$

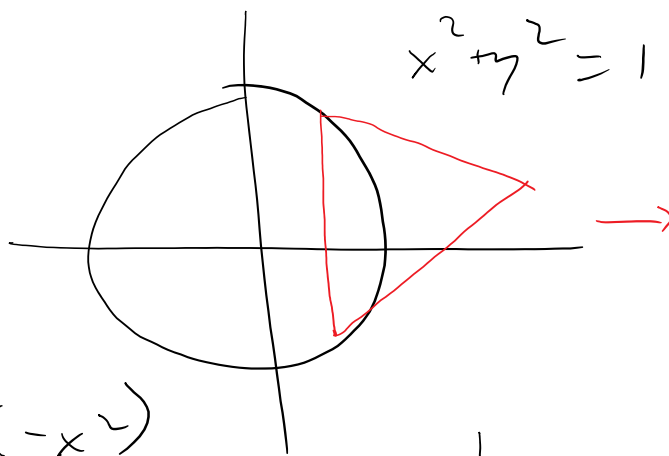
$$s = 2\sqrt{y}$$

$$\text{Area} = s^2 = 4y$$

$$\int_0^3 4y \, dy$$

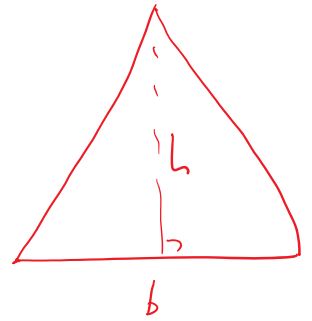
$$2y^2 \Big|_0^3 = 18$$

9



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

$$y = \sqrt{1-x^2}$$



$$\text{Area} = 2(1-x^2)$$

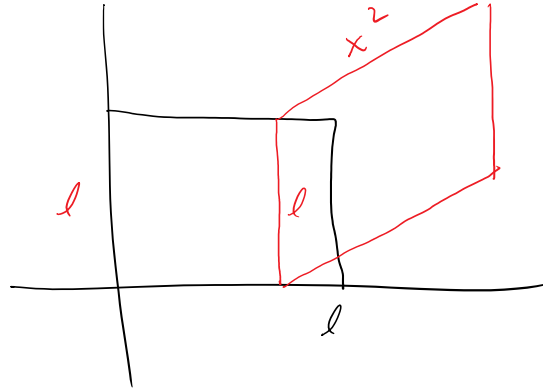
$$2 \int_0^1 (1-x^2) dx$$

-1

$$b = 2\sqrt{1-x^2}$$

$$h = 2\sqrt{1-x^2}$$

12



$$area = l \cdot x^2$$
$$\int_0^l l x^2 dx$$

$$\frac{1}{3} x^3 l \Big|_0^l = \frac{1}{3} l^3 \cdot l = \frac{1}{3} l^4$$