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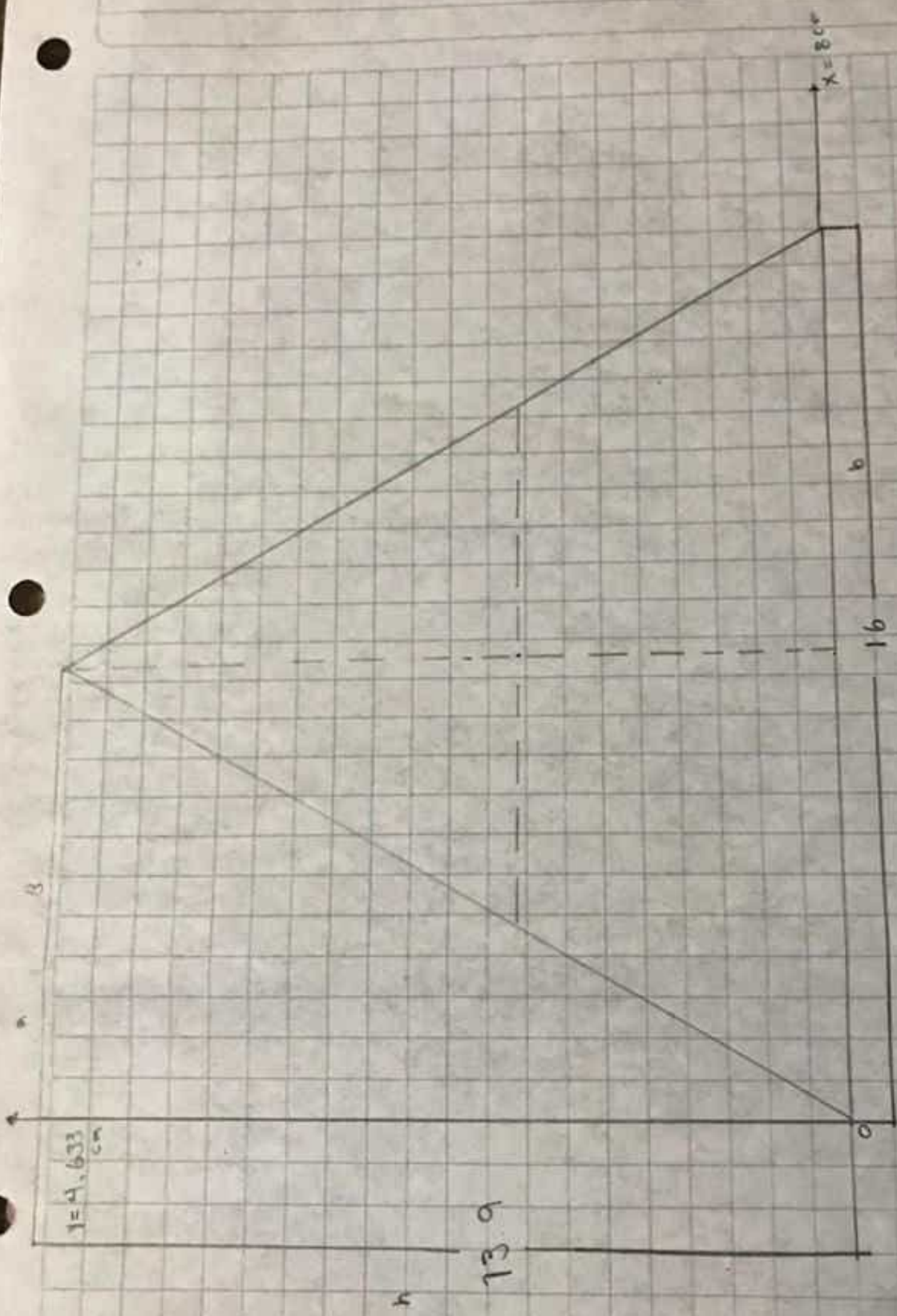
Nombre del trabajo: Áreas y centroides.

Materia: ESTÁTICA PARA LA ARQUITECTURA

Grado: 3er CUATRIMESTRE

Grupo:A

Comitan de Domínguez Chiapas a 10 de junio del 2021.



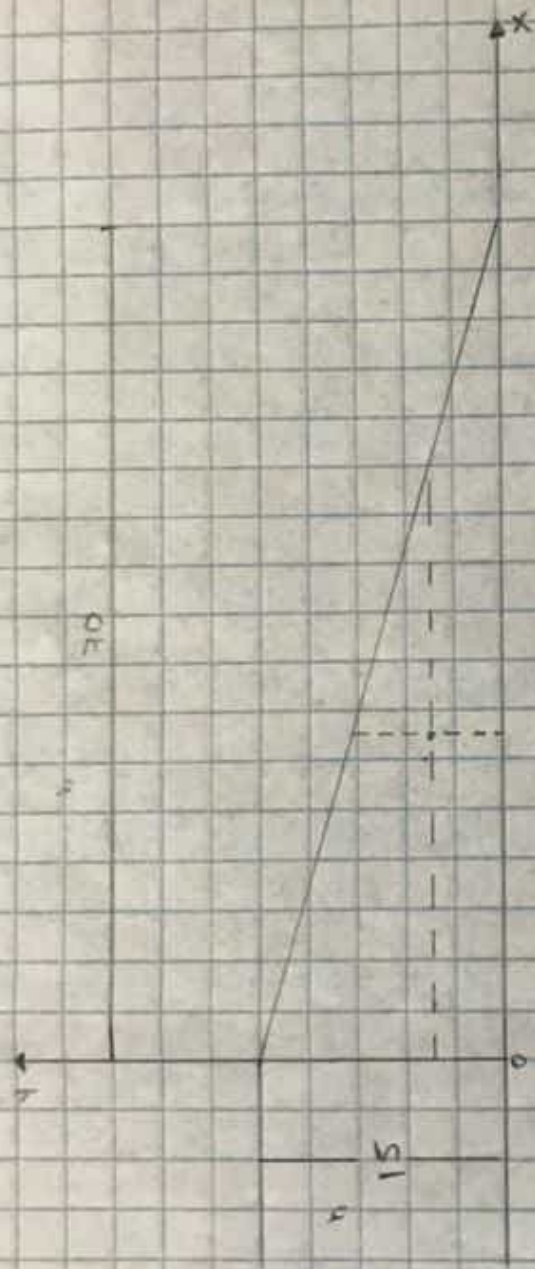
$1 = 4.633$
cm

h
13.9

$$A = b \times h / 2 = 16 (13.9) / 2 = 111.2 \text{ cm}^2$$

$$\bar{x} = a + b / 3 = 8 + 16 / 3 = 8.633 \text{ cm}$$

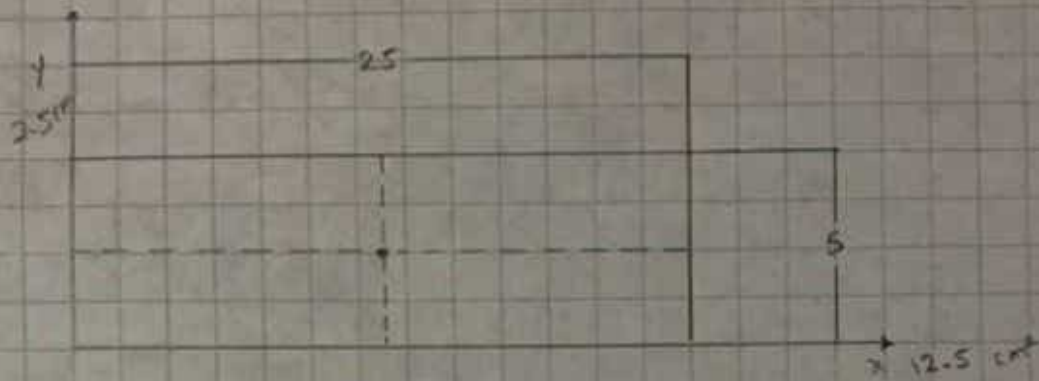
$$\bar{y} = h / 3 = 13.9 / 3 = 4.633 \text{ cm}$$



$$A = b \times h / 2 = 70 \times 15 / 2 = 525 \text{ cm}^2$$

$$\bar{x} = b/3 = 70/3 = 23.333$$

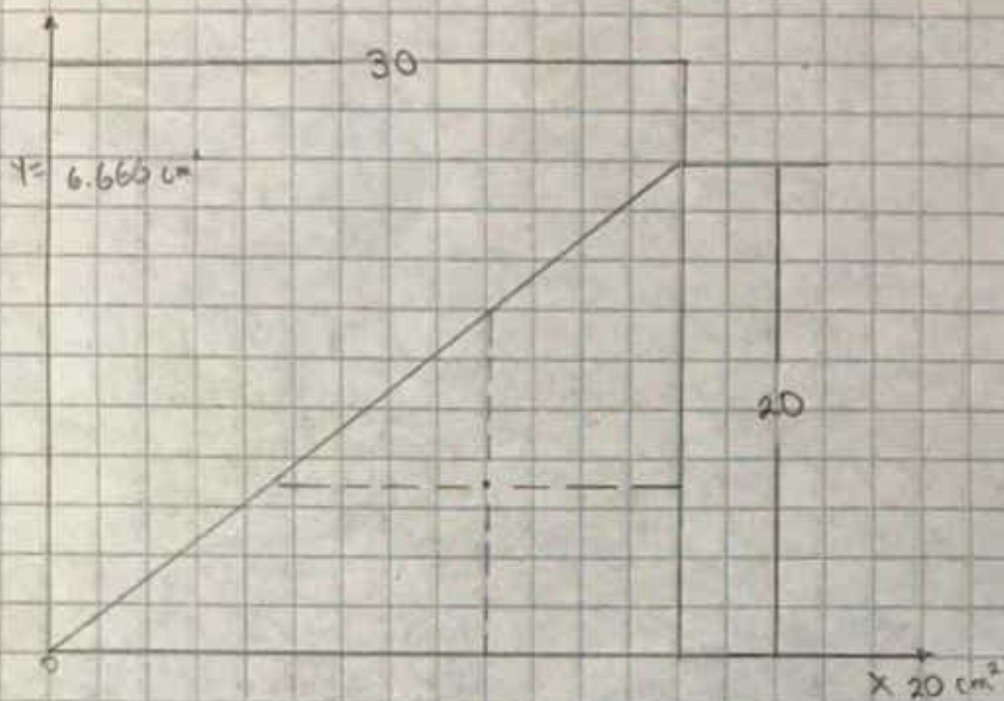
$$\bar{y} = h/3 = 15/3 = 5$$



$$A = b \times h = 25 (5) = 125 \text{ cm}^2$$

$$\bar{x} = \frac{b}{2} = \frac{25}{2} = 12.5 \text{ cm}$$

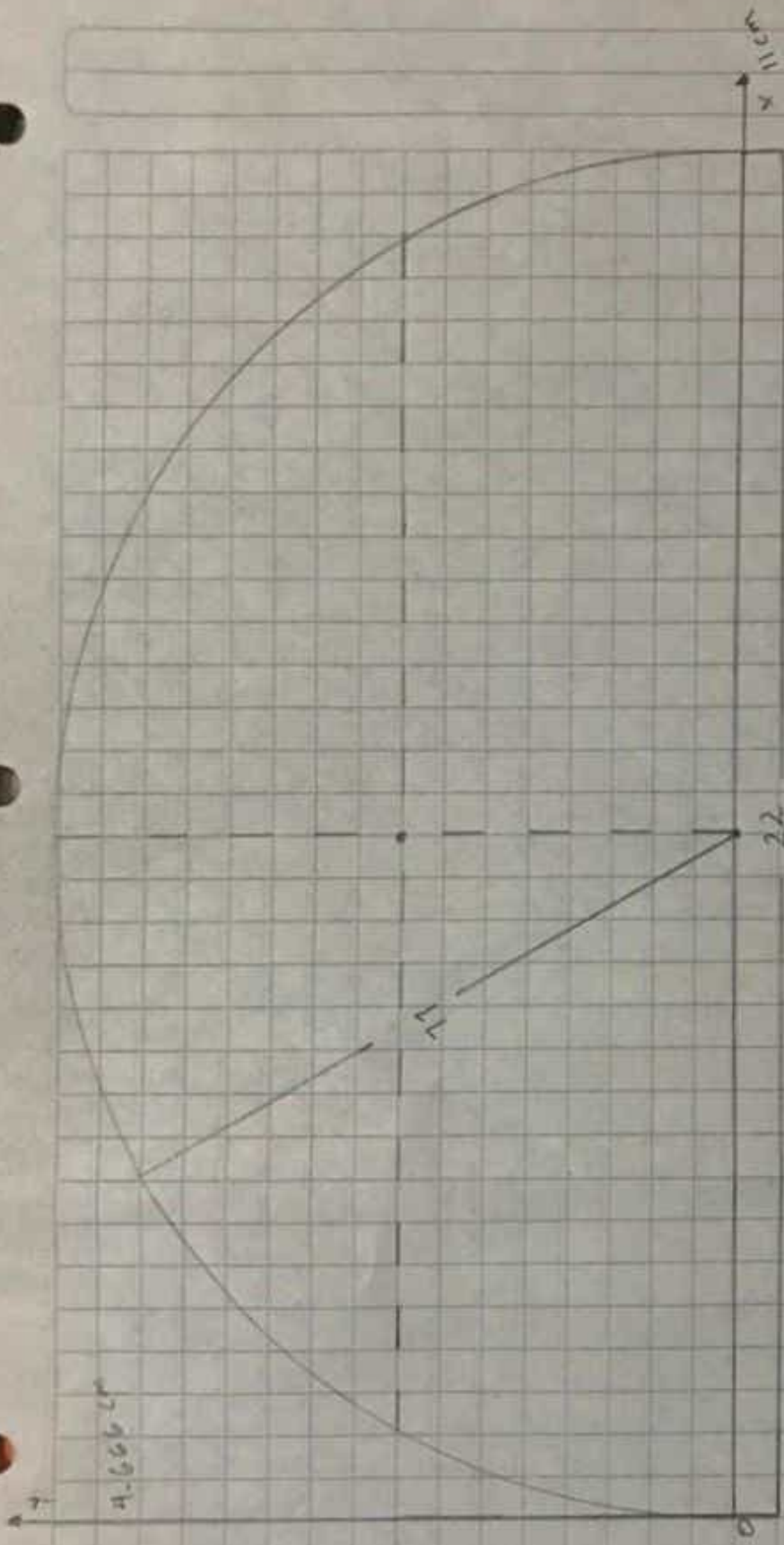
$$\bar{y} = \frac{h}{2} = \frac{5}{2} = 2.5 \text{ cm}$$



$$A = b \times h / 2 \quad A = 30(20) / 2 = 300 \text{ cm}^2$$

$$\bar{x} = 2b / 3 \quad \bar{x} = 2(30) / 3 = 20 \text{ cm}^2$$

$$\bar{y} = h / 3 \quad \bar{y} = 20 / 3 = 6.666 \text{ cm}^2$$



$$A = \pi \cdot R^2 / 2 = 3.1416 (11)^2 / 2 = 190.0668 \text{ cm}^2$$

$$\bar{x} = R = 11 \text{ cm}$$

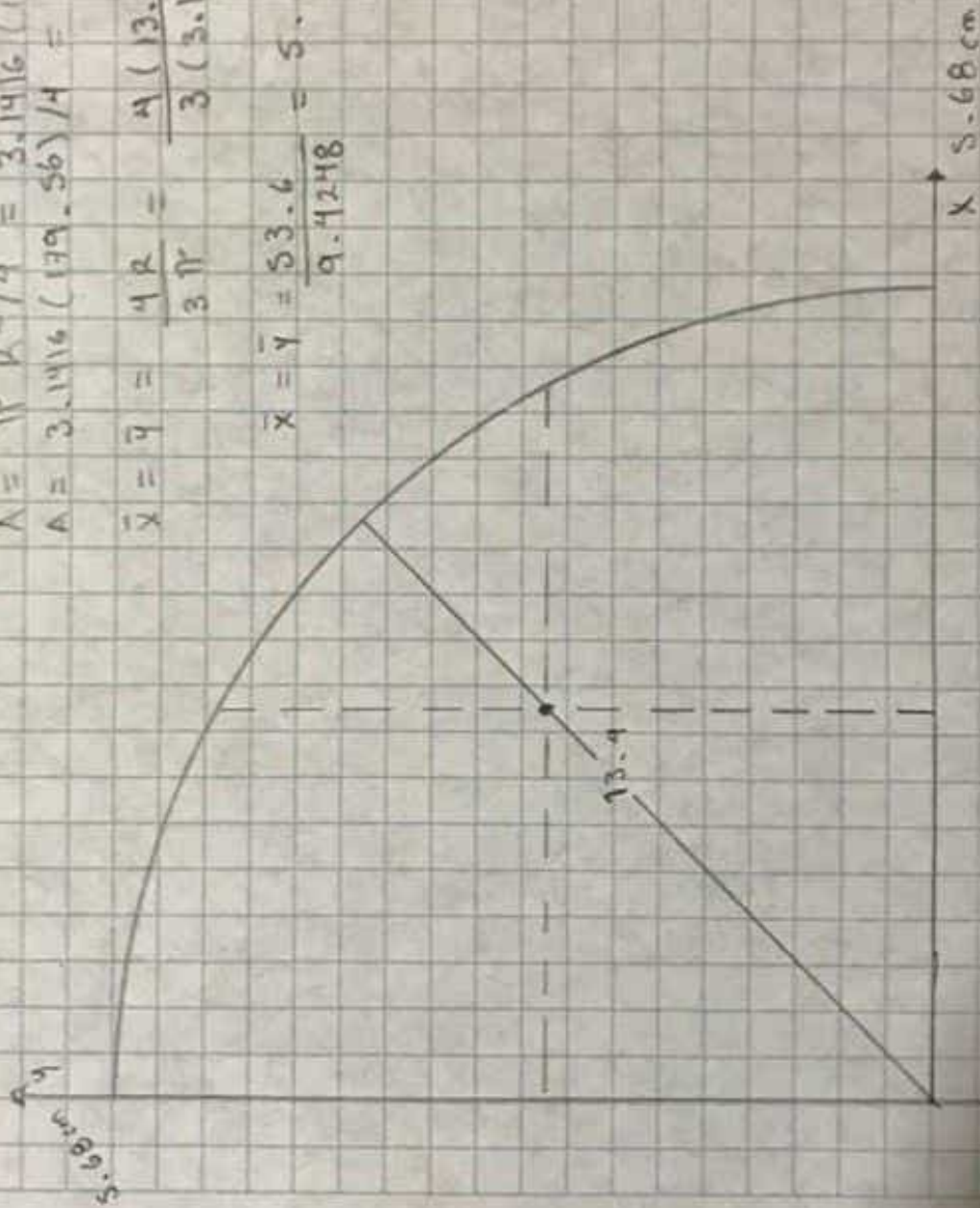
$$\bar{y} = \frac{4R}{3\pi} = \frac{4(11)}{3(3.1416)} = 4.66 \text{ cm}$$

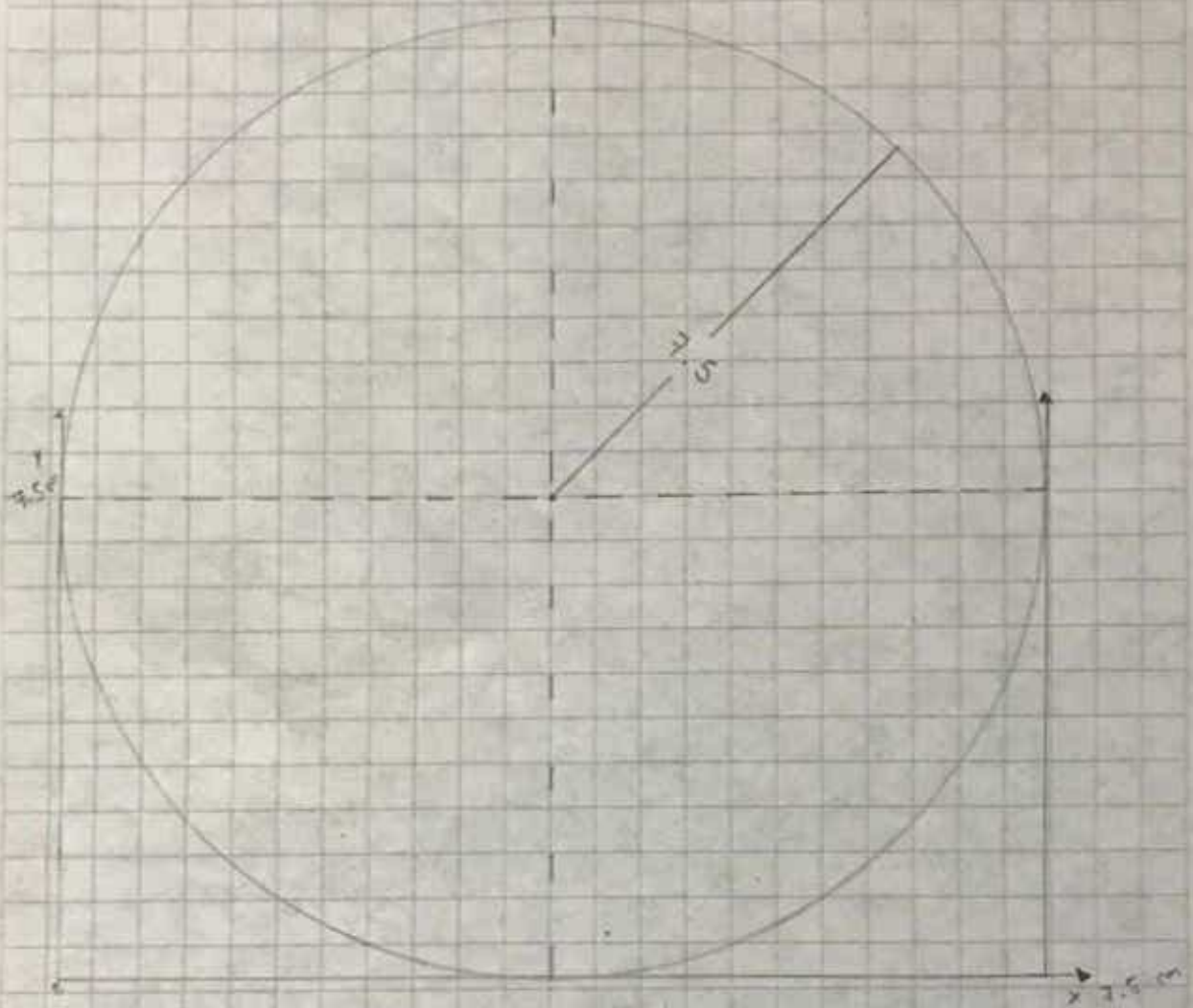
$$A = \pi R^2 / 4 = 3.1416 (13.4)^2 / 4$$

$$A = 3.1416 (179.56) / 4 = 141.0216 \text{ cm}^2$$

$$\bar{x} = \bar{y} = \frac{4R}{3\pi} = \frac{4(13.4)}{3(3.1416)}$$

$$\bar{x} = \bar{y} = \frac{53.6}{9.4248} = 5.68 \text{ cm}$$





$$A = \pi \cdot r^2 = 3.1416 (7.5)^2 = 3.1416 (56.25) = 176.715 \text{ cm}^2$$

$$\bar{x} = R = 7.5 \text{ cm}$$

$$\bar{y} = R = 7.5 \text{ cm}$$