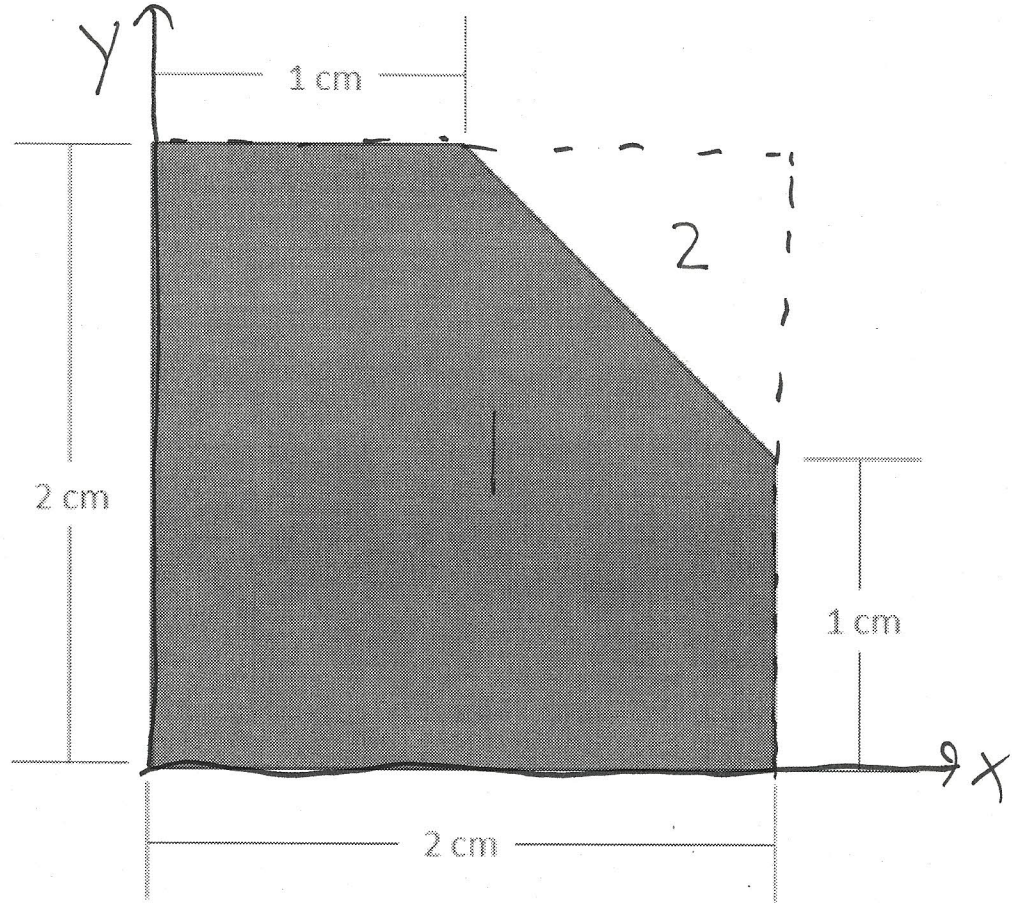


Question 2:

Find the x and y coordinates of the centroid of the shape shown below.



| Shape | Area | \bar{X} | \bar{Y} |
|-------|--------------------|-------------------|-------------------|
| 1 | 4 cm^2 | 1 cm | 1 cm |
| 2 | $-.5 \text{ cm}^2$ | 1.67 cm | 1.67 cm |

$$\bar{X} = \frac{(4)(1) - (.5)(1.67)}{4 - .5}$$

$$\bar{X} = .90 \text{ cm}$$

$$\bar{Y} = \frac{(4)(1) - (.5)(1.67)}{4 - .5}$$

$$\bar{Y} = .90 \text{ cm}$$

Solution

$$\bar{X} = .90 \text{ cm} \quad \bar{Y} = .90 \text{ cm}$$