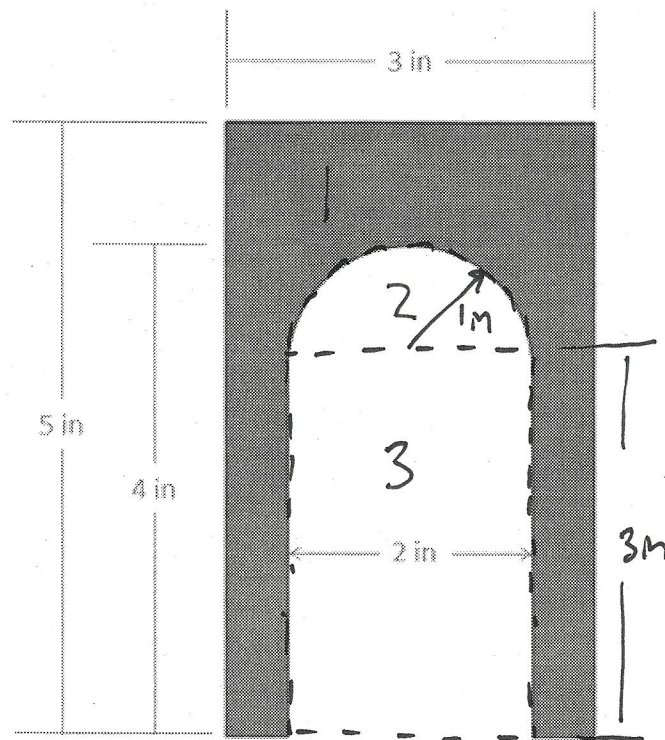


**Question 3:**

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



Calculations:

Shape	Area	$\bar{X}$	$\bar{Y}$
1	$15\text{m}^2$	1.5m	2.5m
2	$-1.57\text{m}^2$	1.5m	3.64m
3	$-6\text{m}^2$	1.5m	1.5m

$$\bar{X} = \frac{(15)(1.5) - (1.57)(1.5) - (6)(1.5)}{15 - 1.57 - 6}$$

$$\bar{X} = 1.5 \text{ m}$$

$$\bar{Y} = \frac{(15)(2.5) - (1.57)(3.64) - (6)(1.5)}{15 - 1.57 - 6}$$

$$\bar{Y} = 3.07 \text{ m}$$

Solution:

$$\bar{X} = 1.5 \text{ m}$$

$$\bar{Y} = 3.07 \text{ m}$$