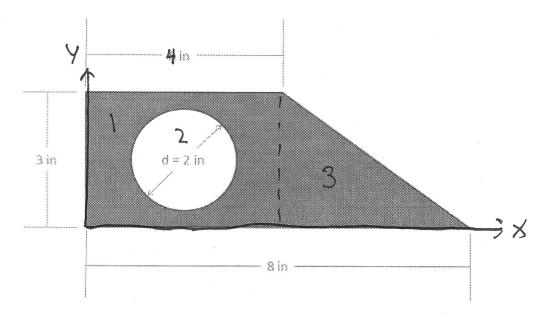
Question 1:

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



Calculations:

Shape	Aren	X	7
	122	Zin	1,5:1
2	-3.142	24	1.S in
3	6143	5.33in	lin

$$\frac{-}{\times} = \frac{(12)(2) + (-3.14)(2) + (6)(5.33)}{12 - 3.14 + 6}$$

$$\overline{X} = 3.34 \text{ m}$$

$$\overline{Y} = \frac{(12)(1.5) - (3.14)(1.5) + (6)(1)}{12 - 3.14 + 6}$$

$$\overline{Y} = \frac{12 - 3.14 + 6}{12 - 3.14 + 6}$$

Solution

$$\bar{\chi} = 3.34 \,\text{m}$$
 $\bar{\gamma} = 1.29 \,\text{in}$