

3A

(2)	mass (kg)	1	3,6	4,6
	x (m)	0	0,6	\bar{x}

$$\bar{x} = \frac{1(0) + 3,6(0,6)}{4,6} = 0,47 \text{ m}$$

(7)	mass (kg)	$k m_1$	m_2	1162 k
	h (cm)	15	33	\bar{h}

$$m_1 = k [2\pi \cdot 5(30) + \pi 5^2(2) - \pi 2^2] \\ = 1087 k \quad \begin{array}{l} \text{Side} \\ \text{hole} \\ \text{Bottom + Top} \end{array}$$



$$m_2 = k 2\pi 2(6) = 75 k$$

$$\bar{h} = \frac{15(1087 k) + 33(75) k}{1162 k} = 16 \text{ cm.}$$

(1)	mass (kg)	0,6	0,3	0,1	1
	x (cm)	20	60	100	\bar{x}

$$\bar{x} = \frac{0,6(20) + 0,3(60) + 0,1(100)}{1}$$

$$\therefore \bar{x} = 40 \text{ cm}$$