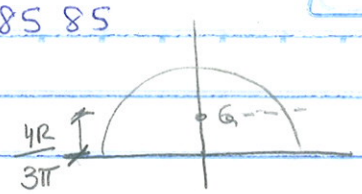
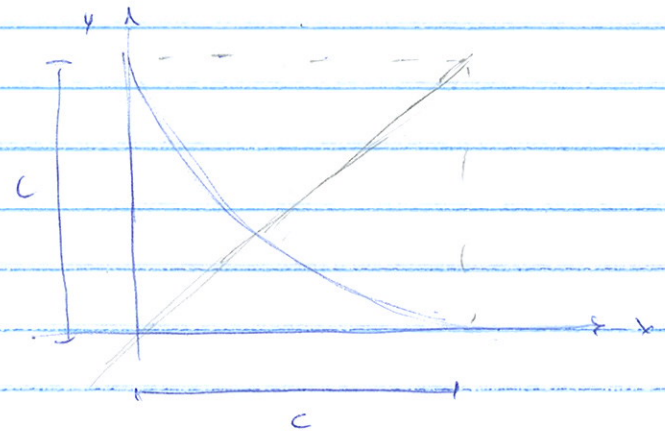
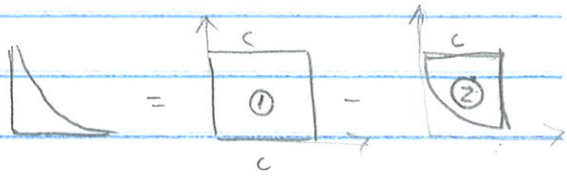
Manyara Michelin Roman 9838585

G?







$$A_t = c^2 - \frac{\pi c^2}{4} = \frac{(4-\pi)c^2}{4}$$

$$S_x = S_{x_1} - S_{x_2} \qquad S_{x_1} = c^2 \cdot \frac{c}{2} = \frac{c^3}{2} \qquad S_{x_2} = \frac{\pi c^2}{4}\left(c - \frac{4c}{3\pi}\right) = \frac{c^3(3\pi-4)}{12}$$

$$S_x = \frac{c^3}{2} - \frac{c^3(3\pi-4)}{12}$$

$$S_x = \frac{6c^3 - 3\pi c^3 + 4c^3}{12}$$

$$S_x = \frac{(10-3\pi)c^3}{12}$$

$$y_G = \frac{S_x}{A} = \frac{\frac{(10-3\pi)c^3}{12}}{\frac{(4-\pi)c^2}{4}} = \frac{(10-3\pi)c}{3(4-\pi)}$$

$$x_G = y_G = \frac{(10-3\pi)c}{3(4-\pi)}$$