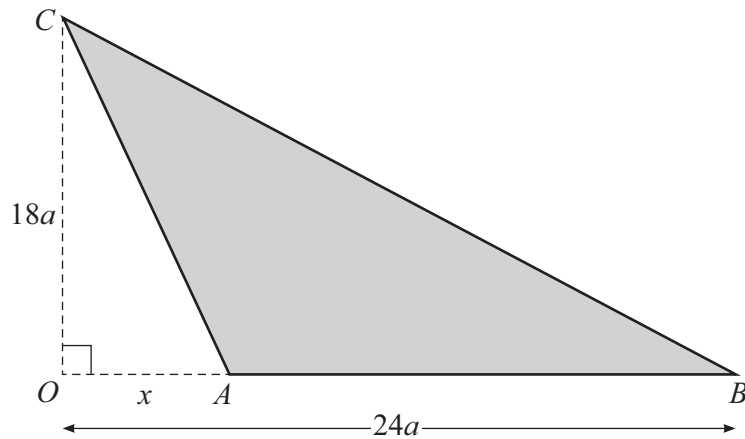




5



A uniform lamina is in the form of a triangle OBC , with $OC = 18a$, $OB = 24a$ and angle $COB = 90^\circ$. The point A on OB is such that $OA = x$ (see diagram). The triangle OAC is removed from the lamina.

- (a) Find, in terms of a and x , the distance of the centre of mass of the remaining object ABC from OC . [3]

[illegible]



5

[4]

This image shows a full page of white paper with horizontal dotted lines, typical of primary school writing paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.