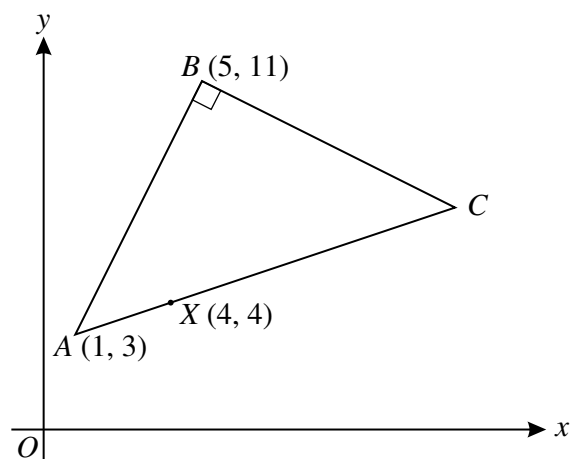


5



The diagram shows a triangle ABC in which A has coordinates $(1, 3)$, B has coordinates $(5, 11)$ and angle ABC is 90° . The point $X(4, 4)$ lies on AC . Find

(i) the equation of BC , [3]

(ii) the coordinates of C . [3]