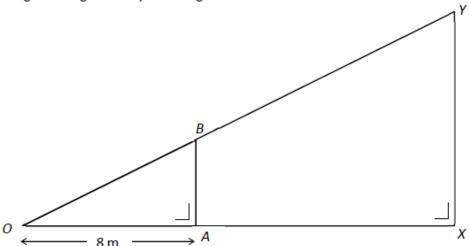
Question 9 (50 marks)

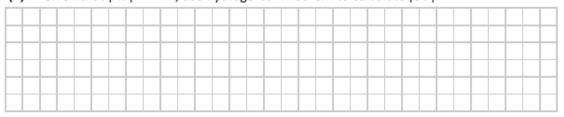
(a) The diagram below shows a plan of part of a yard. The triangle OXY is the image of the right-angled triangle OAB by an enlargement of centre O and scale factor k = 2.5.



(i) Given that |OA| = 8 m, find |OX|.



(ii) Given that |AB| = 6 m, use Pythagoras' Theorem to calculate |OB|.



(iii) Find the area of the triangle OAB.

