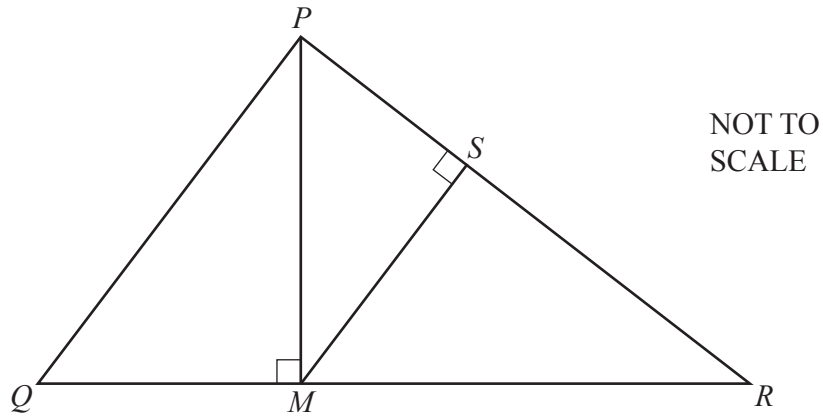


9 (a)



In triangle  $PQR$ ,  $M$  lies on  $QR$  and  $S$  lies on  $PR$ .

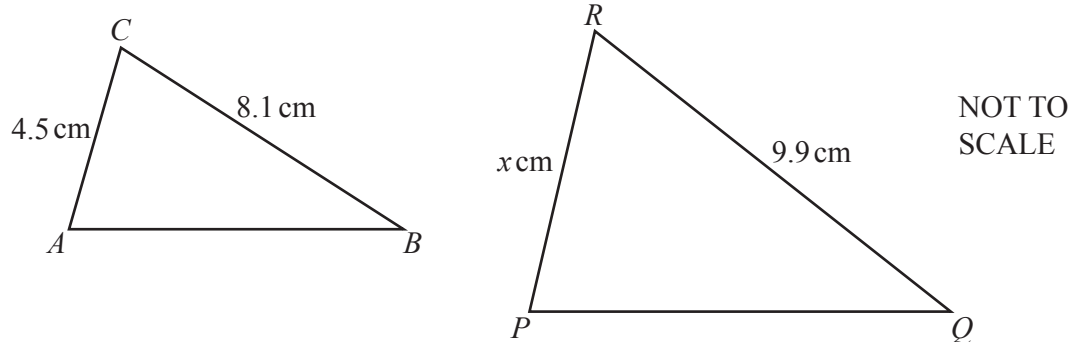
Explain, giving reasons, why triangle  $PMR$  is similar to triangle  $MSR$ .

.....

.....

..... [3]

(b)



Triangle  $ABC$  is similar to triangle  $PQR$ .

(i) Find the value of  $x$ .

$x =$  ..... [2]

(ii) The area of triangle  $PQR$  is  $25 \text{ cm}^2$ .

Calculate the area of triangle  $ABC$ .

.....  $\text{cm}^2$  [2]