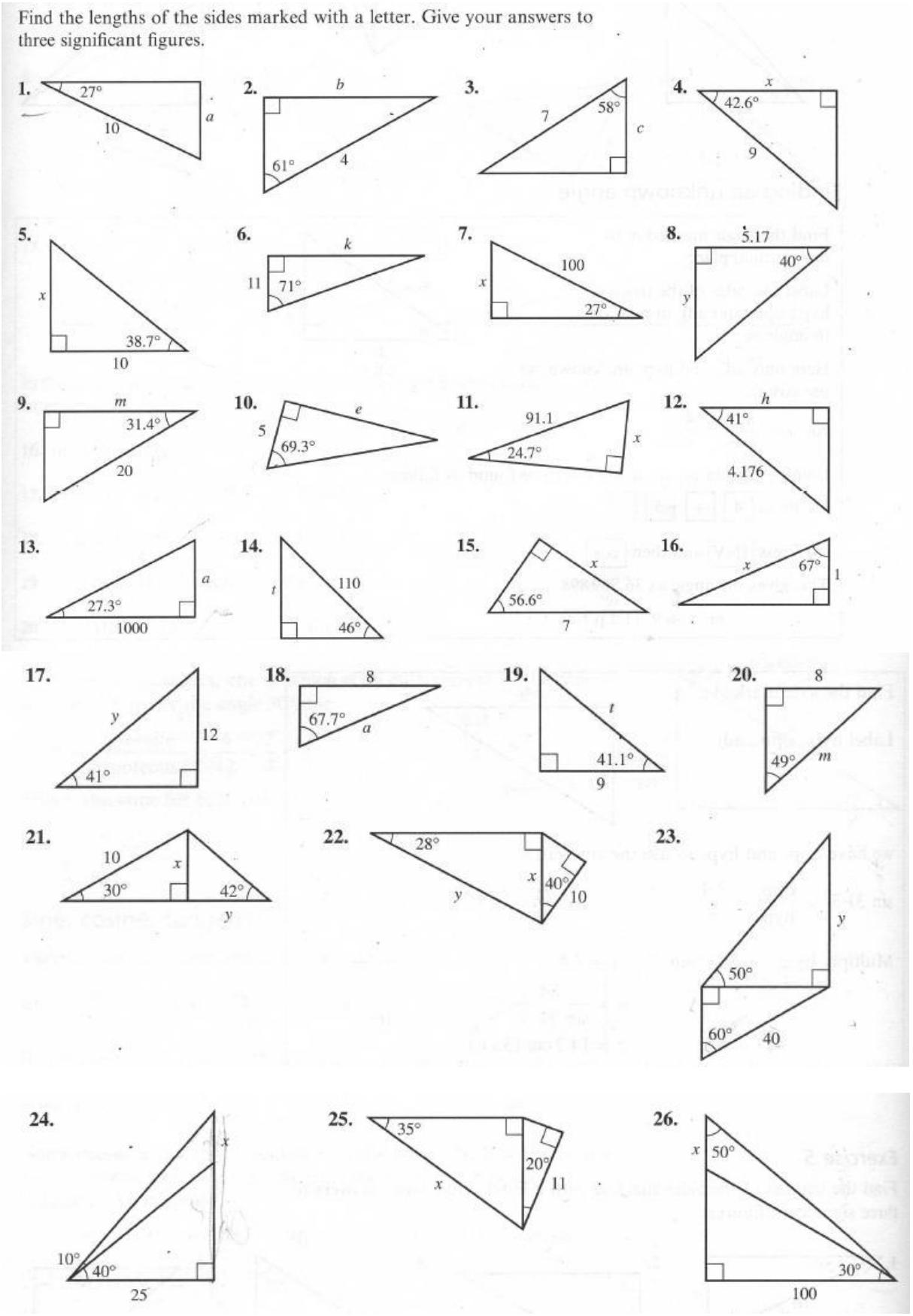
Trigonometry - 1

Exercise A

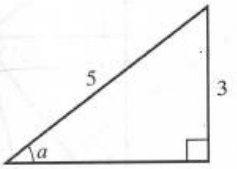
Find the lengths of the sides marked with a letter. Give your answers to three significant figures.



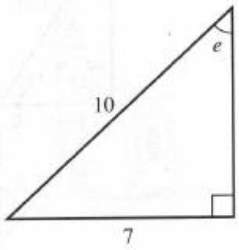
Exercise B

For Questions **1** to **15**, find the angle marked with a letter. All lengths are in cm.

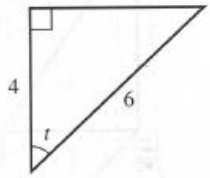
1.



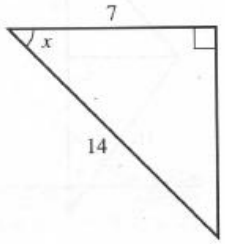
2.



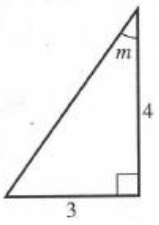
3.



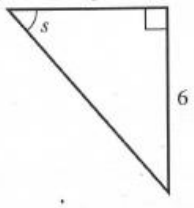
4.



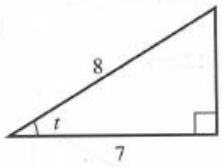
5.



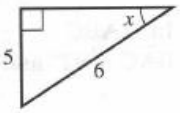
6.



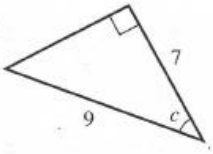
7.



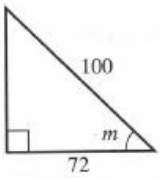
8.



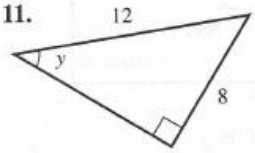
9.



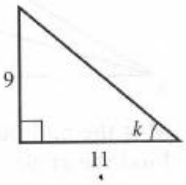
10.



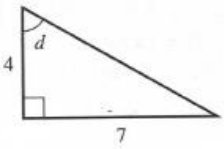
11.



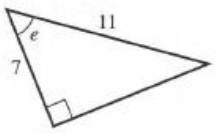
12.



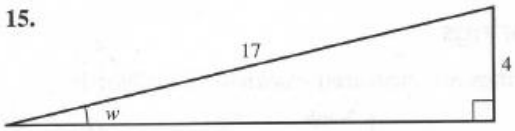
13.



14.



15.



In Questions **16** to **20**, the triangle has a right angle at the middle letter.

16. In $\triangle ABC$, $BC = 4$, $AC = 7$. Find $\hat{A}$.

17. In $\triangle DEF$, $EF = 5$, $DF = 10$. Find $\hat{F}$.

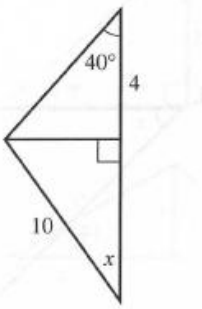
18. In $\triangle GHI$, $GH = 9$, $HI = 10$. Find $\hat{I}$.

19. In $\triangle JKL$, $JL = 5$, $KL = 3$. Find $\hat{J}$.

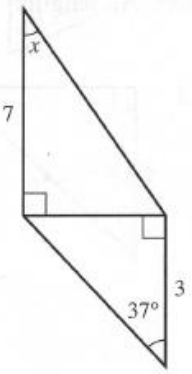
20. In $\triangle MNO$, $MN = 4$, $NO = 5$. Find $\hat{M}$.

In Questions **21** to **24**, find the angle x.

21.

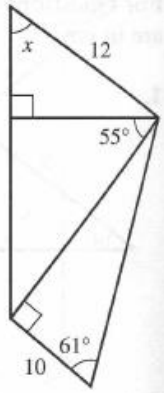


22.



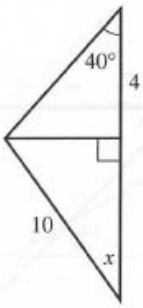
23.

24.

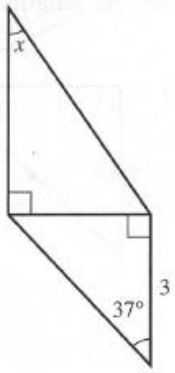


In Questions **21** to **24**, find the angle x.

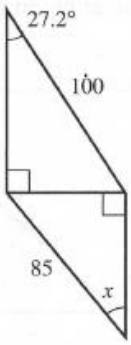
21.



22.



23.



24.