

#### **MATHS**

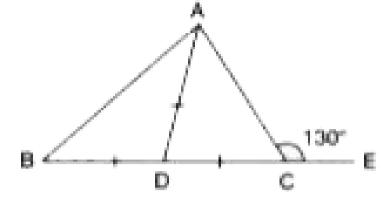
**BOOKS - ICSE** 

### **ISOSCELES TRIANGLES**

**Exercise 10 A** 

1. Calculate:

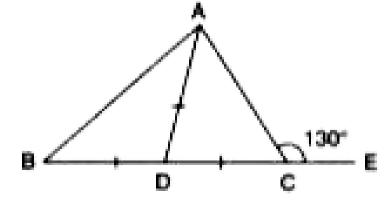
 $\angle ADC$ 





#### 2. Calculate:

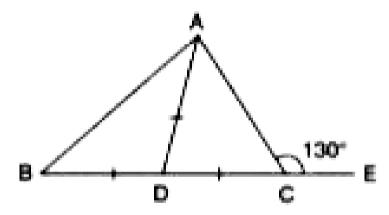
### $\angle ABC$





3. Calculate:

 $\angle BAC$ 

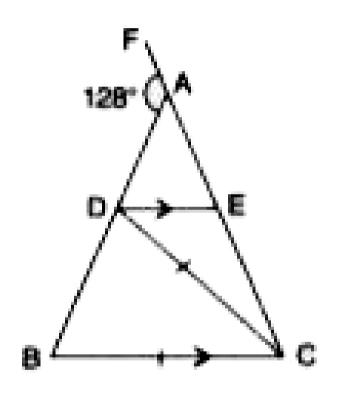




**4.** In the following figure. AB = AC, BC = CD and

DE is parallel to BC, Calculate:

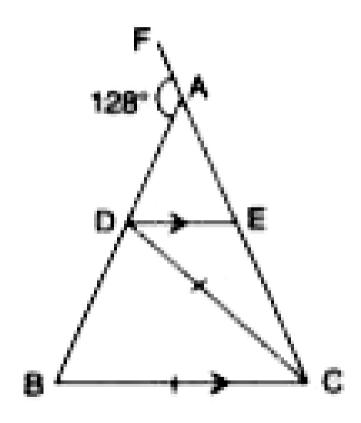
 $\angle CDE$ 





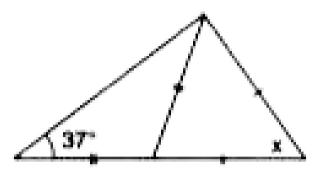
**5.** In the following figure. AB = AC, BC = CD and DE is parallel to BC, Calculate :

 $\angle DCE$ 





**6.** Calculate x



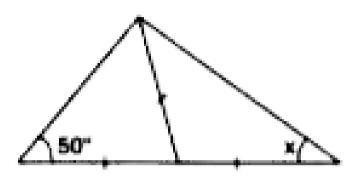


**7.** 

Calculate

Χ

:

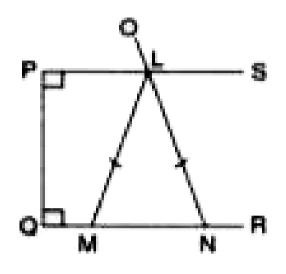




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8. In the figure given below. LM = LN : angle

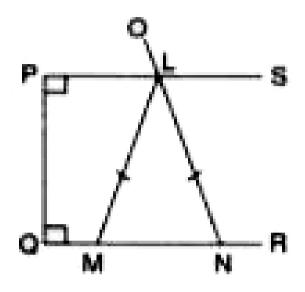
PLN =  $110^{\circ}$  . Calculate :





**9.** In the figure given below. LM = LN : angle

PLN =  $110^{\circ}$  . Calculate :





**10.** An isosceles triangle ABC has AC = BC. CD

bisects AB at D and  $\angle CAB = 55^{\circ}$  ."Find" :

 $\angle DCB$ 



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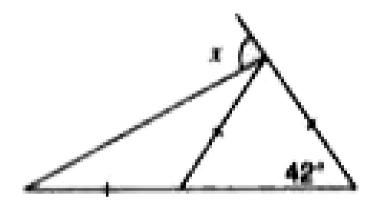
**11.** An isosceles triangle ABC has AC = BC. CD bisects AB at D and  $\angle CAB = 55^{\circ}$ ."Find" :





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#### **12.** Find x :

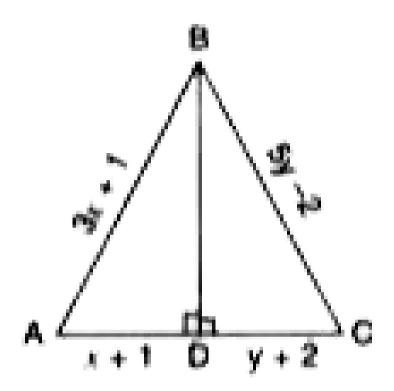




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**13.** In the triangle ABC BD bisects angle B and is perpendicular to AC, If the lengths of the sides of the triangle are expressed in terms of

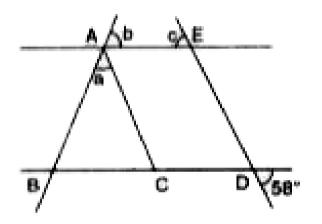
x and y as shown, find the values of x and y.





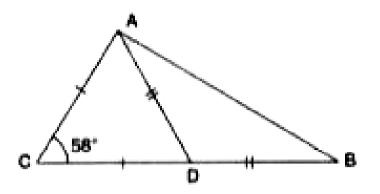
14. In the given figure : AE // BD, AC // ED and

AB = AC. Find  $\angle a$ ,  $\angle b$  and  $\angle c$ .





**15.** In the following figure : AC = CD, AD = BD and  $\angle C = 58^{\circ}$  .



Find angle CAB.



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16. In the figure of Q. No.11, given above, if AC

=AD =CD = BD, , find angle ABC.



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17. In triangle ABC , AB = AC and

 $\angle A$ :  $\angle B = 8$ : 5, find angle A .



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**18.** ABC is an equilateral triangle. Its side BC is produced upto point E such that C is mid-Point of BE. Calculate the measure of angles ACE and AEC.



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19. In triangle ABC, D is a point in AB such that

AC = CD = DB. If  $\angle B=28^\circ$  , find the angle ACD.

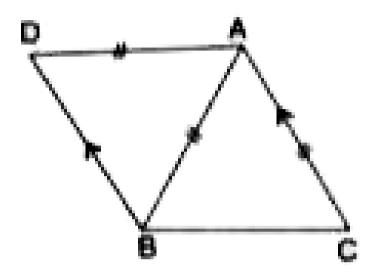


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**20.** In the given alongside figure, AD = AB =AC,

BD is parallel to CA and angle ACB =  $65^{\circ}$  .Find

angle DAC.





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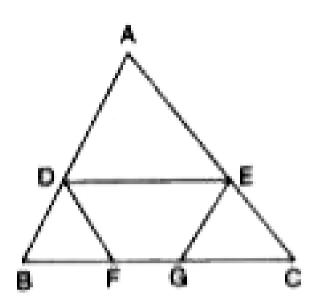
Exercise 10 B

**1.** Sides AB and AC of a triangle ABC are equal. BC is produced through C upto point D such that AC = CD. D and A are joined and produced (through vertex A) upto point E. If angle BAE =  $108^{\circ}$ ., find angle ADB.



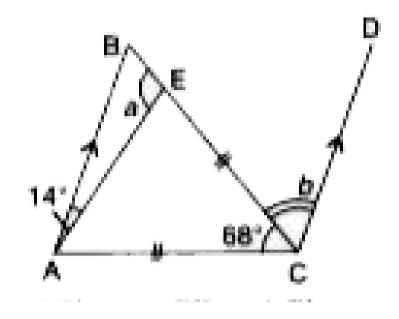
2. The given figure shows an equilateral triangle ABC with each side 15 cm. Also DE // BC, DF // AC and EG // AB. If DE + DF + EG = 20

cm, find FG.





**3.** Using the information, given in each of the following figures, find the values of a and b.





**4.** Using the information, given in each of the following figures, find the values of a and b.

