



Solve each of the following question using appropriate Euclid's axiom :

1. Two salesmen make equal sales during the month of August. In September, each

salesman doubles his sale of the month of August. Compare their sales in September.

- **2.** It is known that x + y = 10 and that x = z. Show that z + y = 10?
- 3. Look at the Fig. 5.3. Show that length AH > sum of lengths of AB + BC + CD

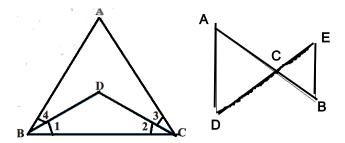


4. In a triangle ABC , x and y are point on AB and $_{BC}$ such that AB = BC, BX = BY. Show that AX = CY.

5. In a triangle ABC we have X and Y are the mid-points of AC and BC and AX = CY. Show that AB = BC

6. **4.** In a triangle ABC , x and y are point on AB and AC such that BX = 1/2AB and BY = 1/2 BC and AB = BC. Show that BX = BY

- **7.** In the Fig. we have <1 = <2, <2 = <3. Show that <1 = <3.
- 8. In the Fig. we have
- <1 = <3 and <2 = <4. Show that <A = <C.
- **9.** In the Fig. we have ,<ABC = <ACB, <3 = <4. Show that <1 = <2.



10. In the given fig. 5.10, we have AC = DC, CB = CE. Show that AB = DE.



