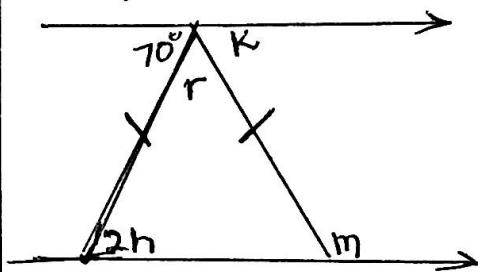


NOTES [Content for Mon. 18/5/2020.

More about angle properties

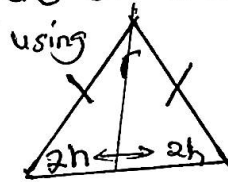
Example 1. Find the value of the unknown angles



$$2h = 70^\circ \text{ (Alternate } \angle\text{s)}$$

$$\frac{2h}{2} = \frac{70^\circ}{2}$$

$$h = 35^\circ$$



$$r + 2h + 2h = 180^\circ$$

$$r + 2 \times 35^\circ + 2 \times 35^\circ = 180^\circ$$

$$r + 70^\circ + 70^\circ = 180^\circ$$

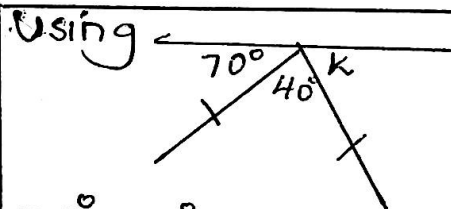
$$r + 140^\circ = 180^\circ$$

$$r + 140^\circ - 140^\circ = 180^\circ - 140^\circ$$

$$r = 40^\circ$$

NB: Two angles which form a "Z" shape are alternate angles and they are equal.

2.



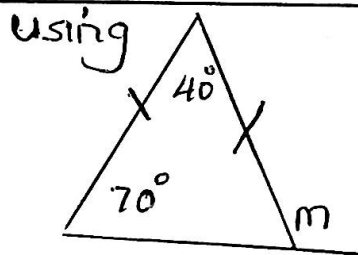
$$70^\circ + 40^\circ + k = 180^\circ$$

$$130^\circ + k = 180^\circ$$

$$130^\circ - 130^\circ + k = 180^\circ - 130^\circ$$

$$0 + k = 50^\circ$$

$$k = 50^\circ$$



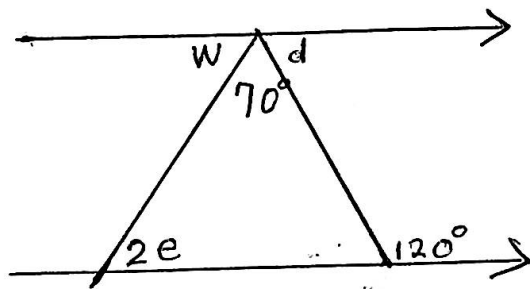
$$70^\circ + 40^\circ = m$$

$$130^\circ = m$$

$$\therefore m = 130^\circ$$

ACTIVITY FOR MON. 18/5/2020

Find the value of the unknown angles in the diagram below.



2

