

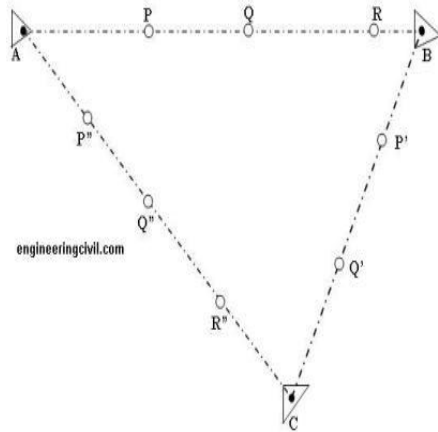
Ranging and fixing of survey station

The object of this experiment is to set up a survey station. This is the basic step of surveying but this is also the one which has the maximum number of errors

Procedure :

1. First of all first ranging rod is established at known point A and its ranging rod should be fixed at point A up to completion of work.
2. Second ranging rod is established at known point B (or at known object) and a ranging rod should be fixed at point B up to completion of work.
3. Third ranging rod established at point P (or any) approximately on the line of point AB (by judgment) and it's not greater than one chain length from point A.
4. Measure the distance of AP by chain and move ranging rod at point P to its next position and establishing a wooden peg or arrow at point P.
5. Third ranging is established at point Q (or any) approximately on the line of point AB (by judgment) and it's not greater than one chain length from point P.
6. Measure the distance of PQ by chain and move ranging rod at point Q to its next position and establishing a wooden peg or arrow at point Q.
7. Its procedure repeats up to reaching point B.
8. Third ranging rod is established at known point C (or at known object) and a ranging rod should be fixed at point C up to completion of work.
9. Fourth ranging rod established at point P' (or any) approximately on the line of point BC (by judgment) and it's not greater than one chain length from point B.
10. Measure the distance of BP' by chain and move ranging rod at point P' to its next position and establishing a wooden peg or arrow at point P'.

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11. Fourth ranging is established at point Q' (or any) approximately on the line of point BC (by judgment) and it's not greater than one chain length from point P' .

12. Measure the distance of $P'Q'$ by chain and move ranging rod at point Q' to its next position and establishing a wooden peg or arrow at point Q' .

13. Its procedure repeats up to reaching point C.

14. Fifth ranging rod established at point P'' (or any) approximately on the line of point CA (by judgment) and it's not greater than one chain length from point C.

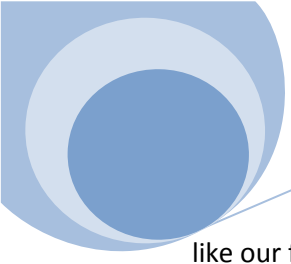
15. Measure the distance of CP'' by chain and move ranging rod at point P'' to its next position and establishing a wooden peg or arrow at point P'' .

16. Fifth ranging is established at point Q'' (or any) approximately on the line of point CA (by judgment) and it's not greater than one chain length from point P'' .

17. Measure the distance of $P''Q''$ by chain and move ranging rod at point Q'' to its next position and establishing a wooden peg or arrow at point Q'' .

18. Its procedure repeats up to reaching point A.

19. Finally complete a triangle and position of point A, B, and C is known respect to each other.



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