EDM:

Fullform: Electromagnetic Distance Measurement.

to between two points.

*) Principle of EDM:

Energy originates at an instrument at one end of a line and transmitted to reflector from where it is returned to originating instrument.

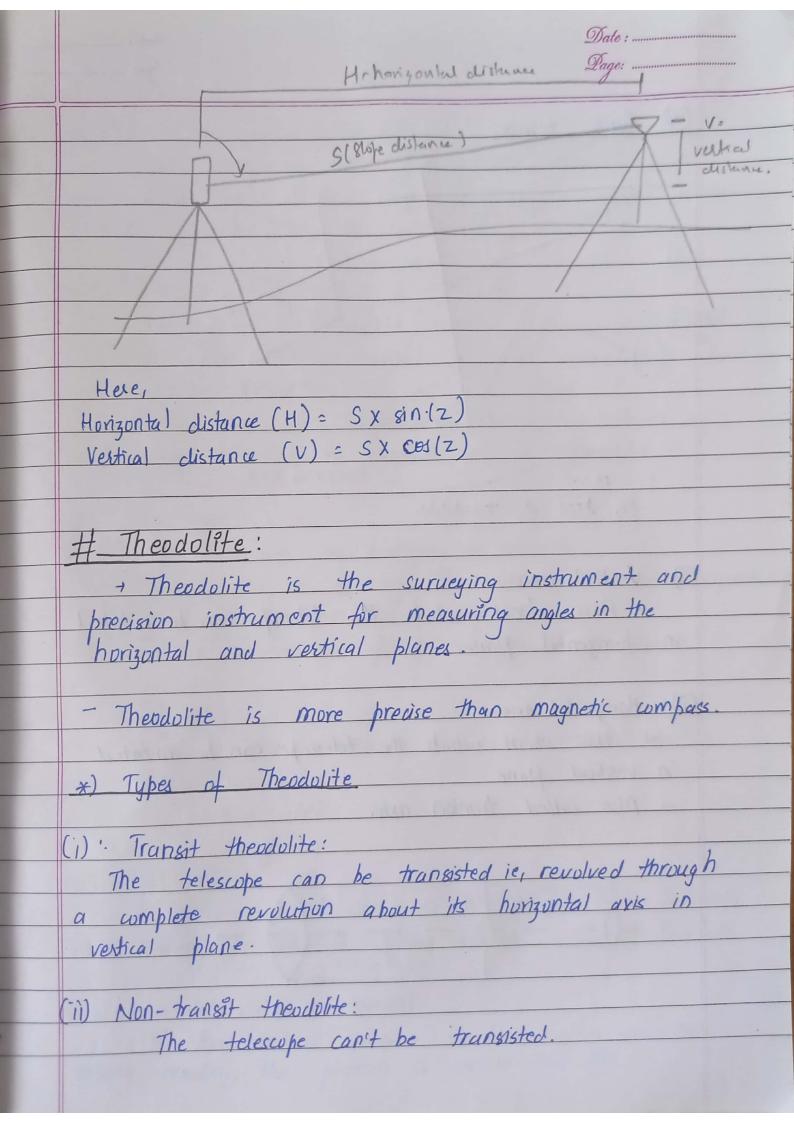
Uses CAH radiation.

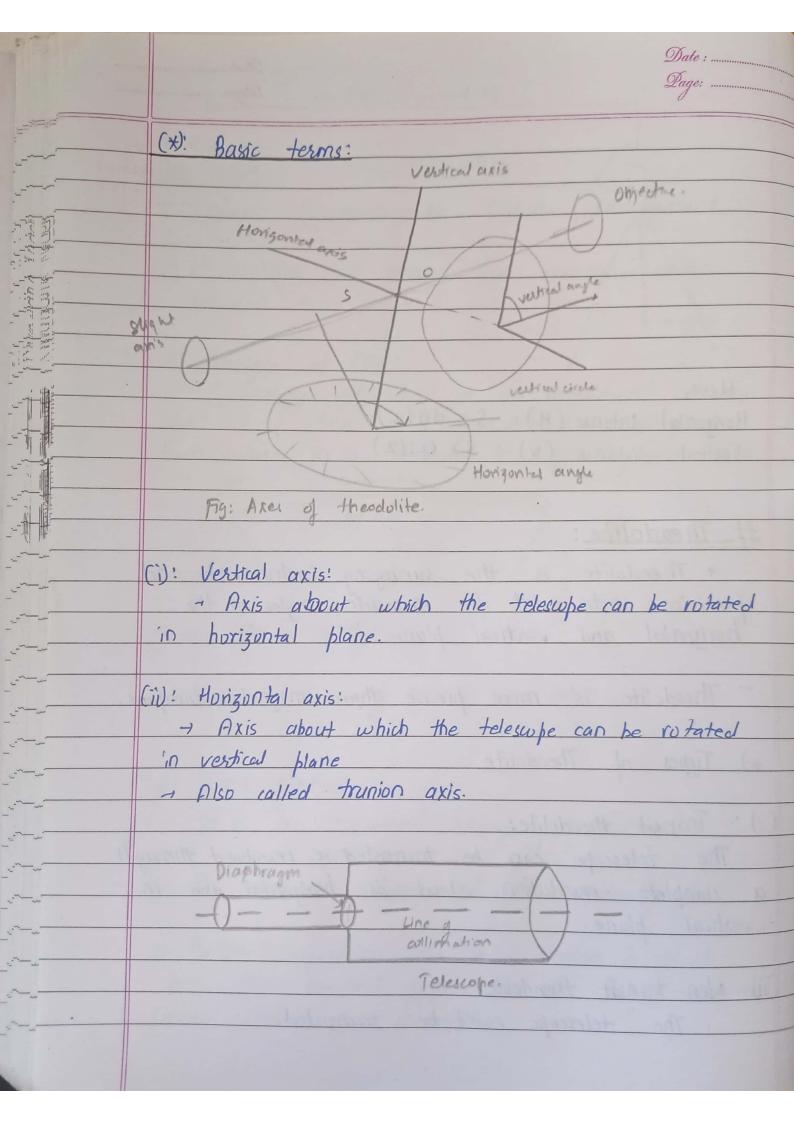
distance = velocity of light x time taken.

Agreemel path.

*) Total station:

- It is a modern surveying instrument.
- It measures horizontal and vertical angles
- over the required point and its height over the survey station is measured.





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(ii) Line of sight / Collimation:

- The imaginary line joining the intersection of the cross-hairs of the chaphragm to the optical center of the objective and its continuation.

(iv): Contoring:

): Centering:

- Setting the theodolite exactly over an instrument station such that its vertical axis lies immediately above the station - mark.

It is done by suspending plumb bub from a small hook attached to vertical axis of theodolite.

(v): Transiting:

- The process of turning the telescope about horizontal axis through 180° in vertical plane.

- This creates a point in opposite direction.

(vi): Swinging:
- Turning the telescope about its vertical axis in the horizontal plane.

- It is either left or right.

(vii) Face left:

- If the vertical circle of instrument is on left side while taking a reading, the position is called face left.

(viii) Face teft olght:

- If the vertical circle is on the right side while taking reading, the position is called face right.

*)	Uses	of	theodolite:
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- inclustry.

- ii) Measuring horizontal and vestical angles.

 iii) Measuring magnetic bearing of lines.

 iv) Locations Locating points on line and prolonging survey lines.

 v) Determining difference in elevation.

 vi) Setting out curves.

 vii) Aligning tunnely

 viii) Mining works.