Rest Sharma
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EXPERIMENT-9.

USE OF VARIOUS FUNCTIONS PROVIDED IN THE TOTAL STATION.

Task 1:

Find the distance of line OA and OB and horizontal angle AOB by using Total station.

For line OA → Horizontal distance ( ) → 15.086m
Vertical component ( ) → 0.790m
sloping distance ( ) → 15.107m.
vertical angle ( ) → 87°0'16"

For line OB → Horizontal distance ( ) → 12.821m
vertical component ( ) → 0.019m
sloping distance ( ) → 12.821m
vertical angle ( ) → 89°55'50"

∴ Angle AOB, Horizontal angle ⟶ 21°50'50".

Task 2:

Find the RL of point A and point B.

Elev — RL of point A — 100.770m.
BM- P- distance between point A & point B = AB = 10.261m.

Task 3:

Find the area:

Area = 64.924 m^2

P-P Dist AB = 10.260m.

Observation Table:

Distance	OA (in m)	OB (in m)
Horizontal	15.086m	12.821m
Vertical	0.790m	0.019m
Sloping	15.107m.	12.821m.

Co-ordinates:

Points	North	East	Zenith.
O	500.000m	500.000m	100.000m
A	514.147m	494.759m	100.789m
B.	511.900m	504.770m	100.019m.