

In figure 21-6, a vertical angle of  $+10^\circ 45'$  is read to a target 1.25m above point B. The measured horizontal distance,  $d$ , is 625.35m and the elevation of point A is 125.65m above datum. If the height of instrument at A is 1.45m, determine the difference in elevation between A and B and the elevation of B, considering the effects of curvature and atmospheric refraction.

$$\theta = 10^\circ 45'$$

$$RR = 1.25 \text{ m}$$

$$d = 625.35 \text{ m}$$

$$\text{Elev A} = 125.65 \text{ m}$$

$$h_i = 1.45$$

$$\text{Elev B} = ?$$

$$DE_{ab} = ?$$



$$\cos \alpha = \frac{d}{s}$$

$$s = \frac{d}{\cos \alpha}$$

$$s = \frac{625.35}{\cos (10^\circ 45')}$$

$$s = 636.52 \text{ m}$$

(measurement of inclined distance)

$$V = s \sin \alpha$$

$$V = (636.52) \sin (10^\circ 45')$$

$$= 118.73 \text{ m}$$

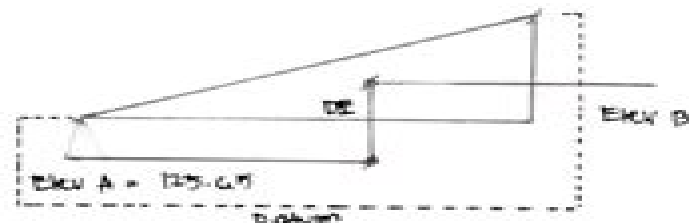
(vertical component of the inclined distance)

$$h_{cr} = 0.0675 \left( \frac{d}{1000} \right)^2$$

$$= 0.0675 \left( \frac{625.35}{1000} \right)^2$$

$$= 0.0264$$

(combined effect of curvature and refraction)



$$DE_{ab} = h_i + V - RR + h_{cr}$$

$$= 1.45 \text{ m} + 118.73 \text{ m} - 1.25 \text{ m} + 0.026$$

$$\boxed{DE_{ab} = 118.956 \text{ m}}$$

(difference in elevation between A and B considering curvature and refraction)

$$\text{Elev B} = \text{Elev A} + DE_{ab}$$

$$= 125.65 + 118.956 \text{ m}$$

$$\boxed{\text{Elev B} = 244.606 \text{ m}}$$

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