

Question

If we know the height and the angles of depression (we need to count that thea on the same side from the hang glider), then we can find the distance between two horses by the next

$$\text{formula: } d = h \cdot \left(\frac{\cos \beta}{\sin \beta} - \frac{\cos \alpha}{\sin \alpha} \right) = 80 \cdot \left(\frac{\cos 8^\circ}{\sin 8^\circ} - \frac{\cos 10.4^\circ}{\sin 10.4^\circ} \right) = 133.3 \text{ meters.}$$

Answer: 133.3 m.