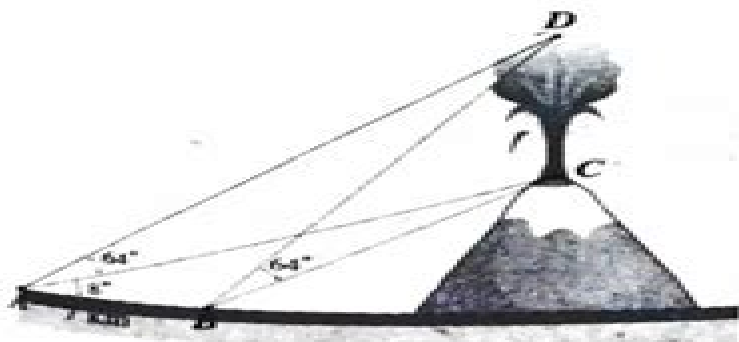


# CIVIL ENGINEERING LICENSURE EXAMINATIONS MATHEMATICS and SURVEYING NOVEMBER 2019

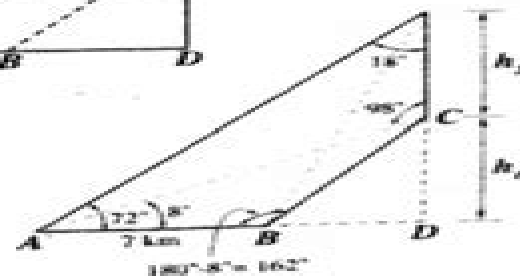
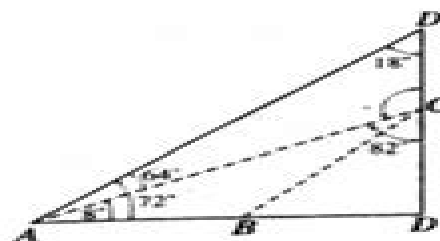
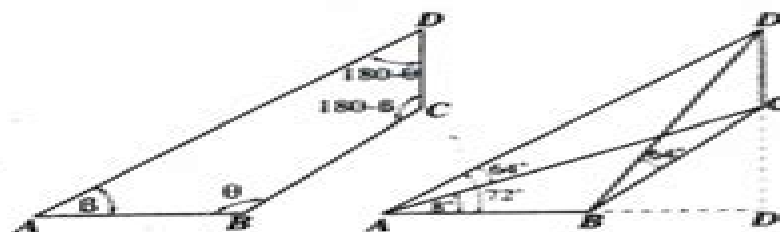
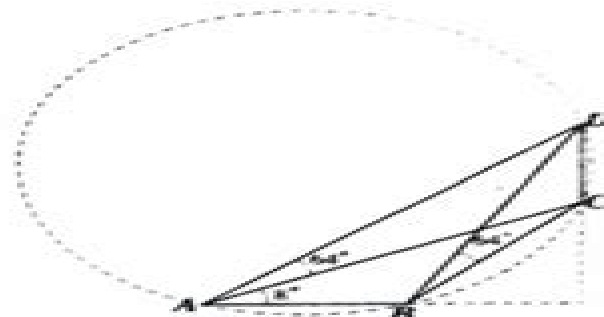
## 1. CE Board Nov. 2019

Immediately after Mayon Volcano showed telltale signs of activity the PHIVOCS set up stations to monitor the volcano. Two such stations were located at points A and B, 7 km apart and on the same horizontal plane as the base of the volcano, B being closer to the volcano. From A, the angle of elevation of the top of Mayon Volcano is  $8^\circ$ . At the height of Mayon Volcano's wrath, the vertical smoke emitted from the volcano's crater subtended an angle of  $64^\circ$  on each stations A and B. Assuming the smoke and the two stations are on the same vertical plane, find the height of the smoke.

**Solution:**



Pass a circle through ABCD (cyclic quadrilateral)



# Civil Engineering Board Exam Problems With Solutions

**Michael Hoelscher**



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