

CIVIL ENGINEERING LICENSURE EXAMINATIONS

MATHEMATICS and SURVEYING NOVEMBER 2019

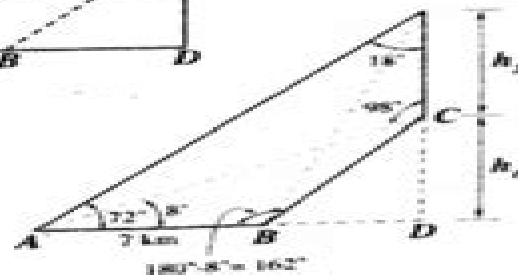
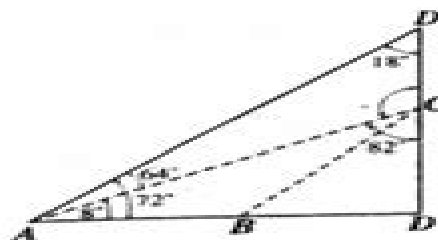
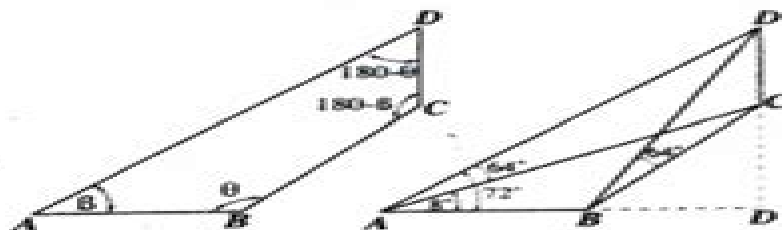
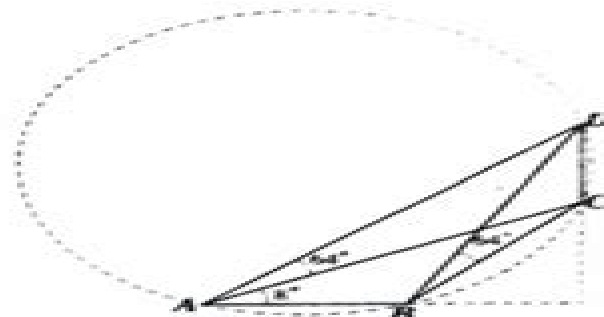
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Immediately after Mayon Volcano showed telltale signs of activity the PHIVOCS set up stations to monitor the volcano. Two such stations were located at points A and B, 7 km apart and on the same horizontal plane as the base of the volcano, B being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



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