

CIVIL ENGINEERING LICENSURE EXAMINATIONS

MATHEMATICS and SURVEYING NOVEMBER 2019

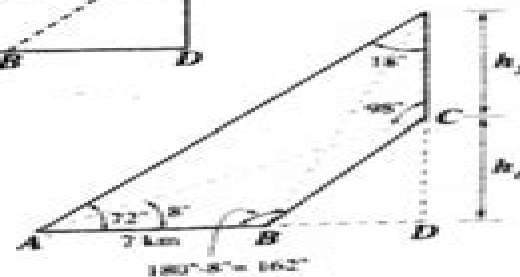
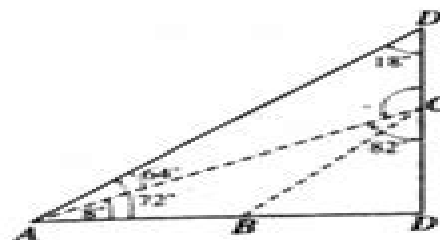
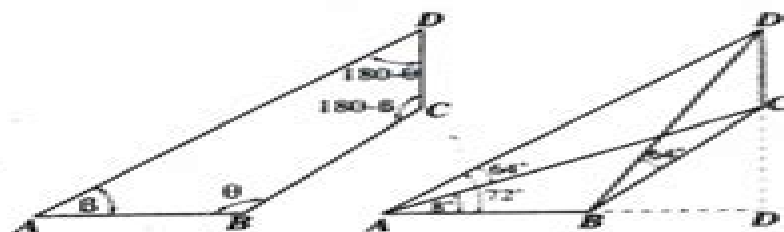
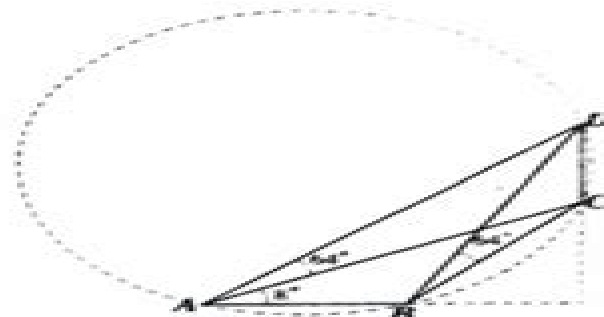
1. CE Board Nov. 2019

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° . 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)



Civil Engineering Board Exam Problems With Solutions

Michael Brown



Civil Engineering Board Exam Problems With Solutions:

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