

#### NATIONAL SENIOR CERTIFICATE

# **GRADE 11**

PHYSICAL SCIENCES: PHYSICS (P1)

**NOVEMBER 2023** 

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web pipe weight is calculated as  $\pi$  x diameter of the pipe in m x length in m x thickness in mm x density of pipe material density of cs 7 85 g cm3 the volume of water required for hydro testing is estimated as  $\pi$  x pipe id in meter 2 x length of pipe

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web determine the required pipe size of each section and outlet of the piping system shown in figure a 6 1 with a designated pressure drop of 0 5 inch w c 125 pa using the longest length method the gas to be used has 0 60 specific gravity and a heating value of 1 000 btu ft 3 37 5 mj m 3 solution maximum gas demand for outlet a the length of pipe