

QUIZ # 12. PHYS 203. Chapter 14. Ideal gas.

NAME:

Gas in a cylinder of a typical engine is compressed to $1/9$ of its original volume. The initial pressure is 1.00 atm, and the initial temperature is $27\text{ }^{\circ}\text{C}$. If the pressure after compression is 21.7 atm, find the temperature of the compressed gas assuming that behaves as an ideal gas.