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gas constant and the ratio of specific heats of oxygen. The units

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are: pressure N/m<sup>2</sup>, temperature K, area m<sup>2</sup> and mass flow rate kg/s. Assuming that the temperature of the oxygen in the bottle does not change with time, determine the time it takes to reduce the pressure to one half of its initial value.  $V=0.1 \text{ m}^3$   $p_1 = 10 \text{ MPa}$   $T_1 = 293\text{K} = T_2$   $p_2 = 5 \text{ MPa}$  kg K J

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FUNDAMENTALS OF GAS DYNAMICS Second Edition ROBERT D. ZUCKER OSCAR BIBLARZ Department of Aeronautics and Astronautics Naval Postgraduate School Monterey, California JOHN WILEY & SONS, INC. Contents PREFACE TO THE STUDENT 1 REVIEW OF ELEMENTARY PRINCIPLES 1.1 1.2 1.3 1.4

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