CHEM1405 2010-J-5 June 2010

• Henry's law relates the solubility of a ga	s to its pressure. <i>i.e.</i> $c = kp$
The Henry's law constant for $N_2(g)$ at 298 K is 6.8×10^{-4} mol L^{-1} atm ⁻¹ . A diver descends to a depth where the pressure is 5 atm. If the diver's body contains about 5 L of blood, calculate the maximum amount of nitrogen gas dissolved in the diver's blood at 1 atm and at 5 atm. (Assume solubility of nitrogen in water and blood to be the same.)	
1 atm:	5 atm:
If all the gas dissolved at 5 atm were sud at 1 atm and 298 K?	ddenly released, what volume would it occupy
	Answer: