1	(a)	(i)	Define <i>pressure</i> .	
			[1]	
		(ii)	Show that the SI base units of pressure are kg m ⁻¹ s ⁻² .	
			[1]	
	(b)	Gas flows through the narrow end (nozzle) of a pipe. Under certain conditions, the mass m of gas that flows through the nozzle in a short time t is given by		
			$\frac{m}{t} = kC\sqrt{\rho P}$	
		whe	re k is a constant with no units, C is a quantity that depends on the nozzle size, ρ is the density of the gas arriving at the nozzle, P is the pressure of the gas arriving at the nozzle.	
Determine the base units		Det	ermine the base units of <i>C</i> .	
			base units[3]	
			[Total: 5]	