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$v - b \frac{dT}{T} - RT \left(\frac{v}{v - b} \right)$

$- \frac{a}{v^2} \frac{dv}{v} + 2 \frac{a}{v^3} \frac{dv}{v}$

$= 0$ where $dp = 0$ is

another way of

saying that one is

holding p constant. R

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$v - b \frac{dT}{T} = RT (v - b)^2$

$- 2 a v^3 dv$ which

allows us to form $\frac{dv}{dT}$

by division of both

sides by dT , which

leads to our ultimate

answer. 5. Given that

the fraction of

molecules with

speeds between v

and $v + dv$ is $dN =$

$4 \pi v^2 m^{-3} \left(\frac{m}{2\pi kT} \right)^{3/2}$

$e^{-mv^2/2kT} dv$

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