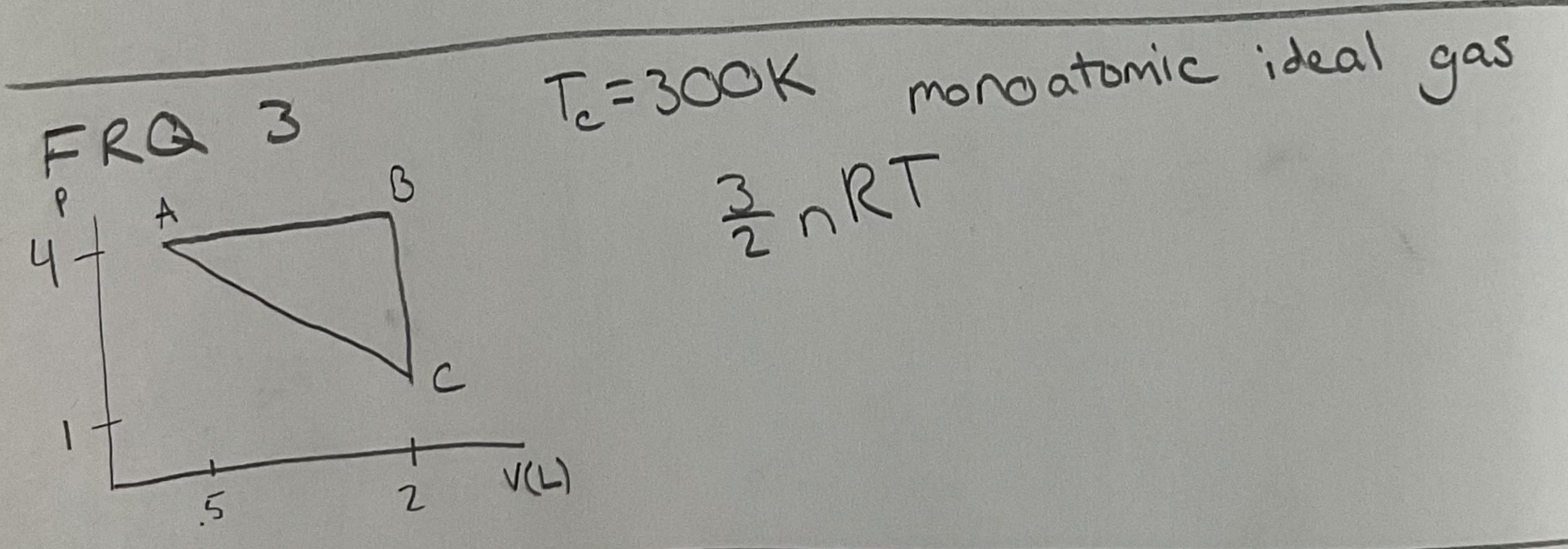


FRQ 2
Uniform Cylinder 
$$R=.2n$$
  $m=2kg$   $g=10 \text{ m/s}^2$   $I=\frac{1}{2}MR^2$ 
Uniform Cylinder  $R=.2n$   $m=2kg$   $g=10 \text{ m/s}^2$   $I=\frac{1}{2}MR^2$ 

Q. Linear Accel

 $S=\frac{1}{2}Im^2$ 
 $S$ 



FRQ 4 d= 10.8 light-years 
$$v=.3c$$
  $c=3\times10^8$   $a=37.74$  years  $1/2 = 1.048$   $b=3b$  years