#Jenny

Finally I get this ebook, thanks for all these I can get now!

#Rio

Cool! I'am really happy

#Markus Jensen

I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu

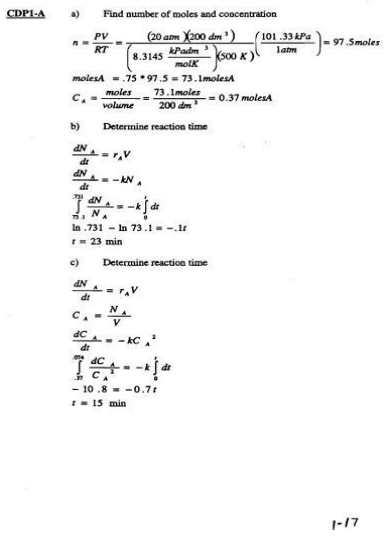
wtf this great ebook for free?!

#Che Salsa

My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler

so many fake sites. this is the first one which worked! Many thanks



CDP1-A

a) Find number of moles and concentration

$$n = \frac{PV}{RT} = \frac{(20\ atm)(200\ dm^3)}{\left(8.3145\ \frac{kPadm^3}{molK}\right)(300\ K)}\left(\frac{101.33\ kPa}{1atm}\right) = 97.5moles$$

$molesA = .75 * 97.5 = 73.1molesA$

$$C_A = \frac{moles}{volume} = \frac{73.1moles}{200\ dm^3} = 0.37\ molesA$$

b) Determine reaction time

$$\frac{dN_A}{dt} = r_A V$$

$$\frac{dN_A}{dt} = -kN_A$$

$$\int_{73.1}^{73} \frac{dN_A}{N_A} = -k\int_0^t dt$$

$\ln .731 - \ln 73.1 = -.1t$

$t = 23$ min

c) Determine reaction time

$$\frac{dN_A}{dt} = r_A V$$

$$C_A = \frac{N_A}{V}$$

$$\frac{dC_A}{dt} = -kC_A^2$$

$$\int_{20}^{10} \frac{dC_A}{C_A^2} = -k\int_0^t dt$$

$-10 .8 = -0.7t$

$t = 15$ min

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