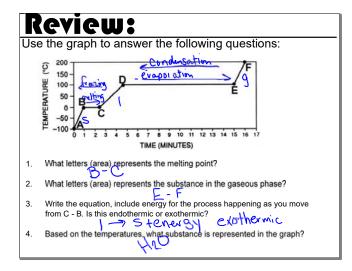
## Accel KMT and Gases-written on.notebook

## February 06, 2018

## **Review:**

- Temperature is a measure of the <u>OVE age</u> <u>Kinetic</u> energy of the molecules in a sample.
- 2. A gas exerts pressure on its container because the molecules <u>collide</u> with the walls.
- According to the assumptions of KMT...
   > The molecules of an ideal gas are in constant,
  - <u>random</u> motion.
     The molecules of an ideal gas have no Volume.
  - > Collisions in an ideal gas are completely elastic
  - There are no attractive or repulsive <u>Socces</u> in an ideal gas.

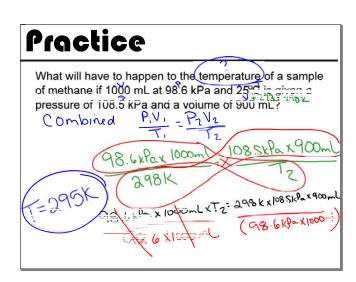
Feb 3-10:21 AM



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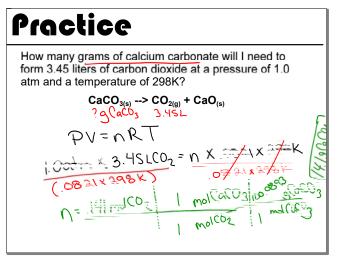
Relationship	Pressure	Volume	Temperature	# of moles
direct	increases	constant	increases	constant
ndirect	Increases	decreases	constant	constant
direct	constant	increase	increases	constant
livect	increases	constant	constant	increases

Feb 3-10:21 AM



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Practice How many moles of gas are in a 30.0 liter scuba canister if the temperature of the canister is 300.0 K and the pressure is 200.0 atmospheres?  $\Box d_{10} \langle PV = nR$ Ideal 200.atm x 30.0L = n x



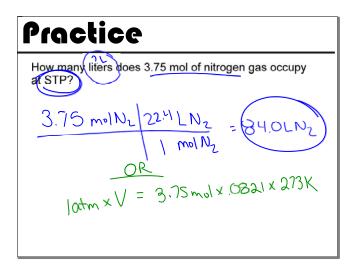
## February 06, 2018

Practice	
If excess HCI is dripped onto volume of Cl <sub>2</sub> will be produce	d at 15°C and 0 959 atm?
2 KMnO₄=== +ಕ ∺ಂಸ=== = ೫೦ಸ== \5.೦ಇ	د در <u>بالمحمد معامد م</u> ۲۰ معامد م ۲۰ معامد م
15.0g MnDy 1 mol KMnDy	5 mol Clz = 237mol Clz
PV = nRT	7molCl2 × 0821×288K
9- Contraction	qaim
(1-5	84LU2)

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Practice
How many liters of water can be formed if 1.25 liters of ethylene are consumed in this reaction? (assume STP)
$C_{2}H_{4(g)} + 3 O_{2(g)} \longrightarrow 2 CO_{2(g)} + 2 H_{2}O_{(g)}$ $1 \Im L$ $1 \Im L \qquad \qquad$

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