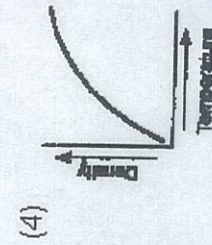
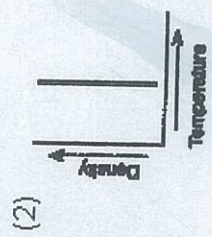
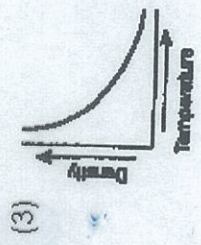
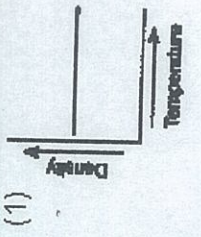


#1

Which graph best represents the relationship between air temperature and air density in the atmosphere?



#2

Base your answer to the following question on the Earth Science Reference Tables.

A temperature of 73° Fahrenheit is approximately equal to a temperature of

- (1) 17° Celsius
- (2) 23° Celsius
- (3) 26° Celsius
- (4) 162° Celsius

B. Air pressure

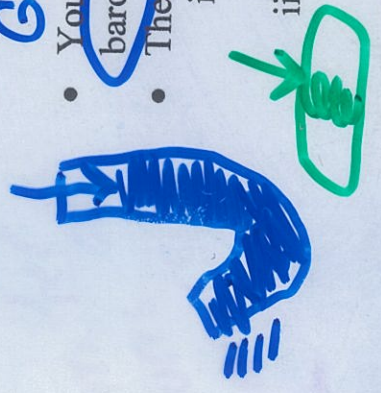
- Air pressure is **the pressure exerted by the air above you.**
- Air is a mixture of **gases**
- A gas contains many tiny individual molecules that are far apart and moving rapidly.

Why doesn't our atmosphere float off into space?
Gravity of the earth.

You can NOT sense the **changes in the air pressure** but a **barometer** can.

There are two main types of barometers:

- i. **Mercury** barometer - air pushes down on mercury then the mercury will rise up a tube.
- ii. **Aneroid** barometer - no air, the can has a spring scale. As the air pushes against it the spring records how much pressure.



Def →

Common Question

One atmosphere is the average pressure at sea level = 1013.2 millibars.

In general, when the barometric pressure is rising, **bug sky's fair** weather is moving in. Falling means **Stormy** weather is approaching.

Lines on map Weather map

Air pressure **gradient** controls the **Velocity** of the wind. i. The higher the gradient (closer the lines) the **greater** the wind velocity.