2. In the lab experiment a constant volume gas thermometer is used to determine how the pressure of an ideal gas varies with temperature. A graph is made by plotting the experimental values of pressure along the y-axis and the corresponding values, T_C, of temperature measured on the Celsius scale along the x-axis. If the enclosed gas behaves very nearly like an ideal gas, the result should be

A. A straight line graph with a y-intercept of -273 and a positive slope
B. A straight line graph with an x-intercept of -273 and a positive slope
C. A straight line graph with the slope equal to $+273$
D. A straight line graph with the slope equal to -273
E. A straight line graph with an x-intercept of $+273$ and a negative slope
F. A straight line graph with a y-intercept of $+273$ and a negative slope

Ans._____