Question number	Answer	Notes	Marks
9 a (i)	straight line extrapolated in line with existing line such that it crosses the temperature axis; temperature given in the range -260 to -300;	judge by eye	2
(ii)	(speed) increases / eq;		1
b (i)	temperature; mass / amount / type (of gas);	allow 'number of moles' allow moisture level / humidity (of gas)	2
(ii)	MP1. low volume gives high pressure / ORA; MP2. decreasing volume increases the pressure / ORA; MP3. relationship is non-linear / inversely	allow all marking points if seen from clear sketch graph with labelled axes	3
	proportional / idea that rate of change varies;	N.B. 'pressure is inversely proportional to volume' gains all 3 marks	
	Pressure of gas = 2 marks	Note that the following sketch graph would also gain all 3 marks	
	Fressure Fressu	Pressure (Po.)	

Total for question 9 = 8 marks