Graham's Law of Effusion

1. Which gas effuses faster and by how many times N_2 or CO_2?
2. Which gas effuses faster and by how many times NH_3 or HCl?
3. Which gas effuses faster and by how many times H_2 or UF_6?
4. Which gas effuses faster and by how many times CO or NO?
5. Which gas effuses faster and by how many times CH_4 or NO_2?
6. Which gas effuses faster and by how many times C_2H_6 or C_3H_8?
7. Which gas effuses faster and by how many times H_2 or Cl_2?
8. Which gas effuses faster and by how many times N_2O or NO_2?
9. Which gas effuses faster and by how many times C_2H_6 or NO_2?
10. Which gas effuses faster and by how many times CF_4 or N_2O_5?
11. An unknown gas X effuses 1.65 times faster than C_3H_8. What is the molecular mass of the gas?
12. HCl effuses 1.88 times faster than an unknown gas HX, is the gas HBr or HI?
13. The Rate of effusion of an unknown gas was found to be 31.50 ml/min. Under the same conditions the rate of effusion of O_2 was measured to be 30.50 ml/min. is the unknown gas CH_4, CO,NO, CO_2 or NO_2?
14. The Rate of effusion of an unknown gas was found to be 24.0 ml/min. Under the same conditions the rate of effusion of CH_4 was measured to be 47.8 ml/min. What is the molecular mass of the unknown gas?
15. An unknown gas X effuses 1.33 times faster than N_2. What is the molecular mass of the gas?
16. An unknown gas X effuses 1.88times faster than NH_3. What is the molecular mass of the gas?
17. An unknown gas X effuses 1.46 times faster than H_2. What is the molecular mass of the gas?
18. An unknown gas X effuses 1.93 times faster than CO. What is the molecular mass of the gas?
19. An unknown gas X effuses 1.59 times faster than CH_4. What is the molecular mass of the gas?
20. An unknown gas X effuses 1.29 times faster than C_2H_6. What is the molecular mass of the gas?