

INTERNATIONAL EXERCISES. STATE OF MATTER

12. Draw an Arrhenius diagram (temperature dependence) for the stated cases.

a) The gas phase is a unimolecular first-order reaction.

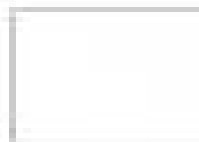
b) There are two parallel paths leading to different products.

c) Liquid phase, a bimolecular reaction with a definite pattern.

d) Condensation of the product by which liquid particles form a dimer.

e) Binding to the product by which a solid precipitate is formed.

13. Draw Arrhenius diagrams in the three different cases:



14. Fill in the blanks:

a) _____ is the rate of formation of liquid from vapor in gas. During this process, particles gain _____ to move into the liquid state.

b) The height of a liquid depends on the _____ and the volume of the liquid.

c) The particles in a _____, because of their attraction, they are free to _____ and they don't have a definite _____.

d) Freezing of _____ is dependent on what is _____ and the _____.