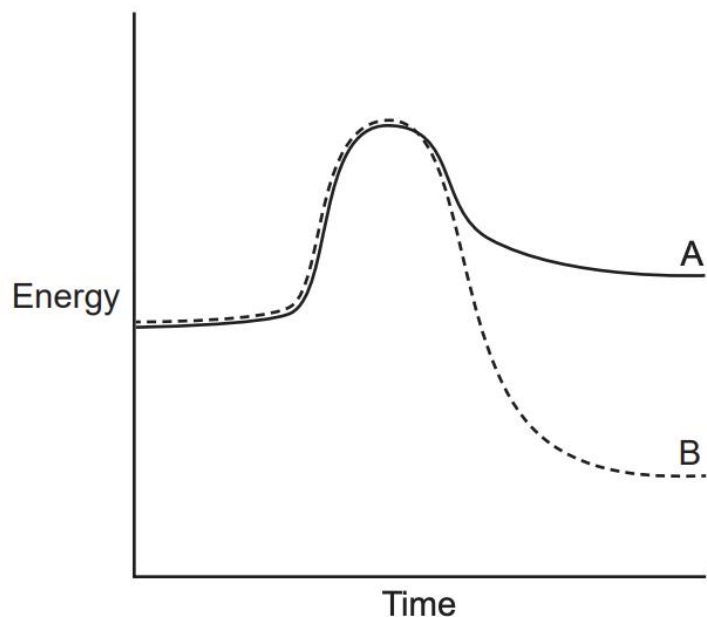


8. Energy profile diagrams for two different chemical reactions (A and B) are shown below.



Which of these reactions is the more likely to be reversible and why?

- (a) Reaction A, because its forward reaction is endothermic.
- (b) Reaction B, because its forward reaction is exothermic.
- (c) Reaction A, because the activation energy of its reverse reaction is smaller than that for Reaction B.
- (d) Neither, because the activation energies of their forward reactions are the same.