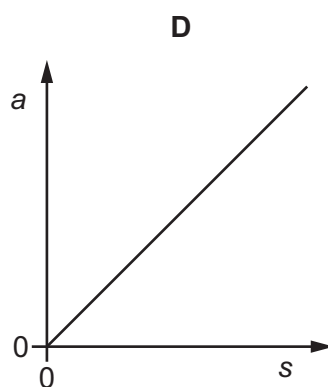
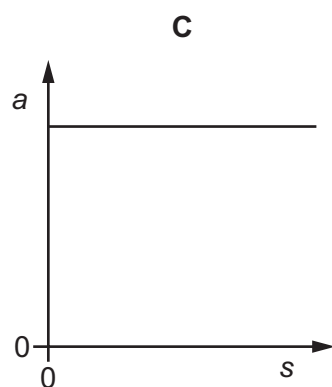
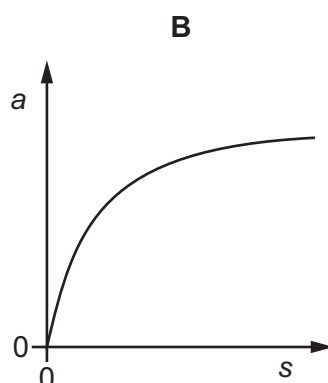
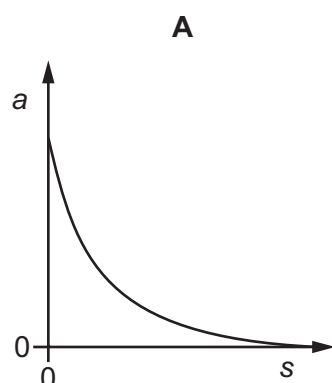


- 9 A skydiver leaves a stationary balloon and falls vertically through a long distance.

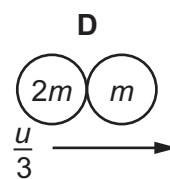
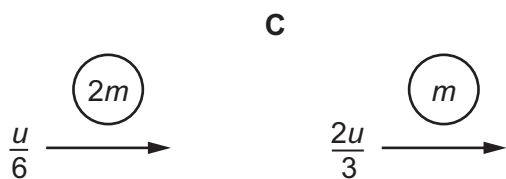
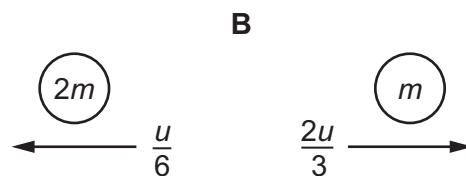
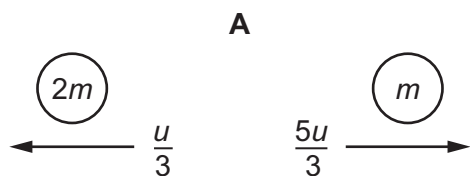
Which graph best represents the variation of the acceleration a of the skydiver with the distance s travelled as she falls through the air?



- 10 The diagram shows two spheres approaching each other head-on. Each sphere has speed u . One sphere has mass $2m$ and the other has mass m .



Which diagram shows the result of a perfectly elastic collision?



the spheres stick together