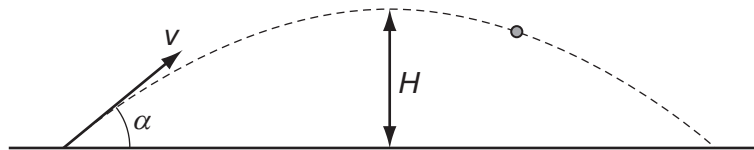


- 3 A cannon fires a cannonball with an initial speed v at an angle α to the horizontal.



Which equation is correct for the maximum height H reached?

- A** $H = \frac{v \sin \alpha}{2g}$ **B** $H = \frac{g \sin \alpha}{2v}$ **C** $H = \frac{(v \sin \alpha)^2}{2g}$ **D** $H = \frac{g^2 \sin \alpha}{2v}$

Space for working