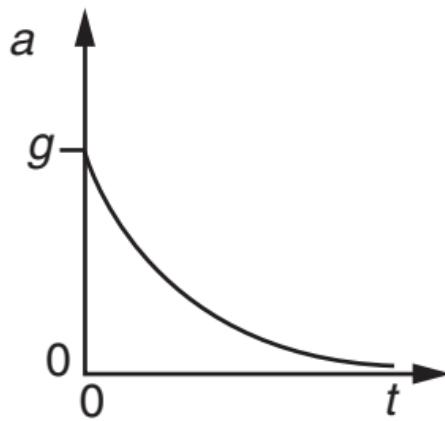


**8** An object is dropped from a great height and falls through air of uniform density.

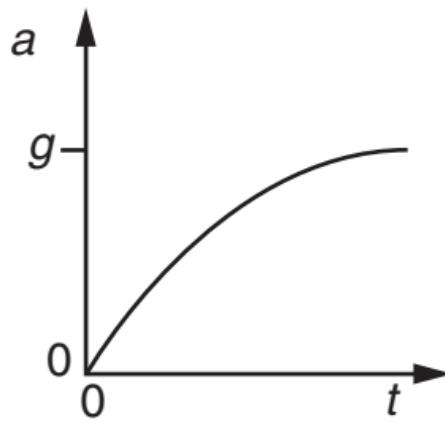
The acceleration of free fall is  $g$ .

Which graph could show the variation with time  $t$  of the acceleration  $a$  of the object?

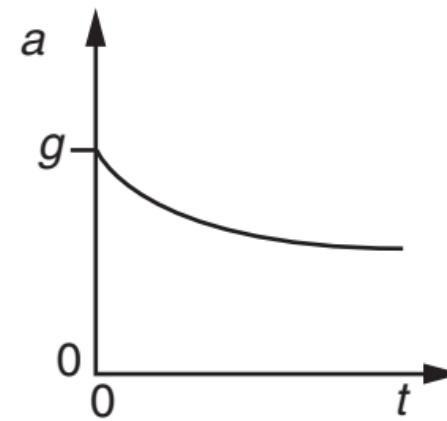
**A**



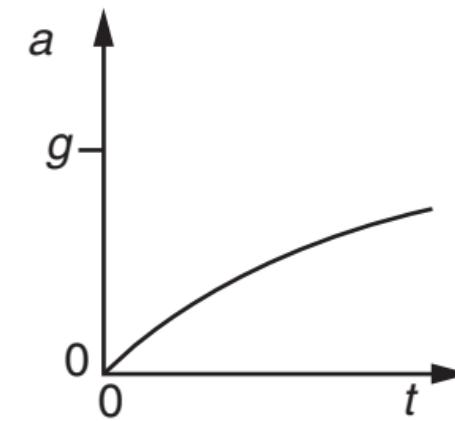
**B**



**C**



**D**



**9** Which of the following is a statement of the principle of conservation of momentum?