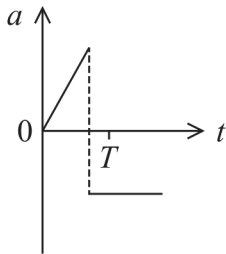
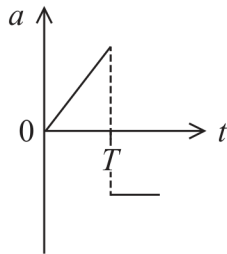


- 8 A model rocket is launched and moves vertically upwards while still burning fuel to give a constant upwards thrust. The fuel runs out, and the rocket reaches the maximum height at time T before falling back to the ground.

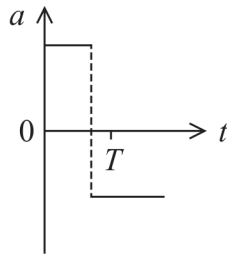
Which of the following graphs could show how the acceleration a of the rocket varies with time t , if the decrease in mass as the fuel burns is neglected?



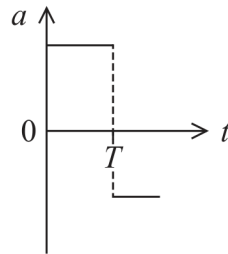
☐ A



☐ B



☐ C



☐ D

(Total for Question 8 = 1 mark)