

Answer **all** the questions in the spaces provided.

- 1 (a) (i) Define *acceleration*.

.....  
.....

[1]

- (ii) State Newton's first law of motion.

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[1]

- (b) The variation with time  $t$  of vertical speed  $v$  of a parachutist falling from an aircraft is shown in Fig. 1.1.

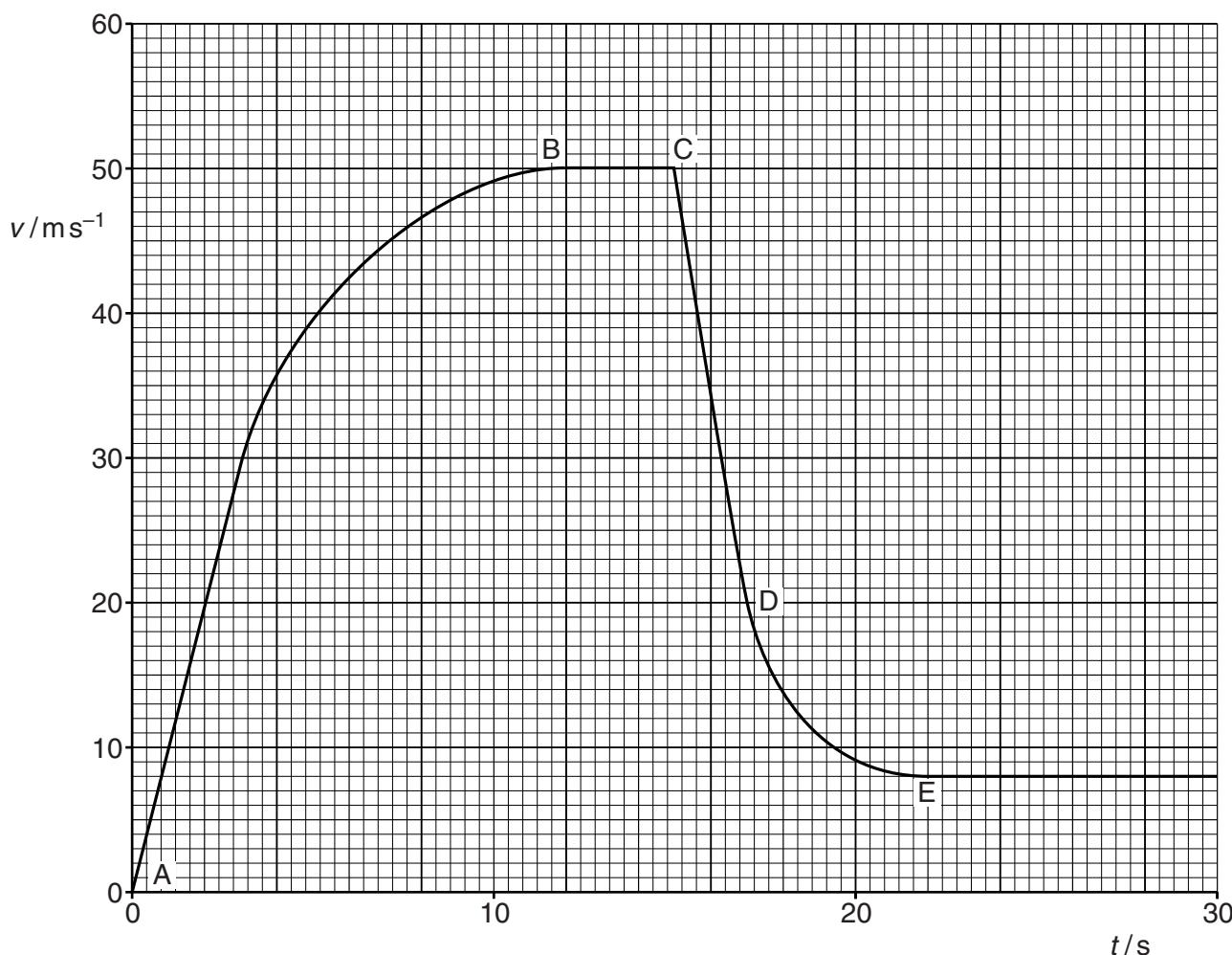


Fig. 1.1