

4 A jet aircraft climbs steeply at a speed of  $200\text{ ms}^{-1}$ .

Which row can give the aircraft's speed over the ground and speed of vertical rise?

	speed over the ground $\text{ms}^{-1}$	speed of vertical rise $\text{ms}^{-1}$
A	120	80
B	140	100
C	160	120
D	180	140

5 A motorcyclist goes straight up a gradient of  $1:1.23$  at  $20\text{ ms}^{-2}$ . (1)