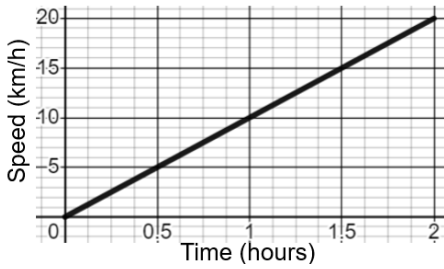


## Speed-Time Graphs

**(a)**

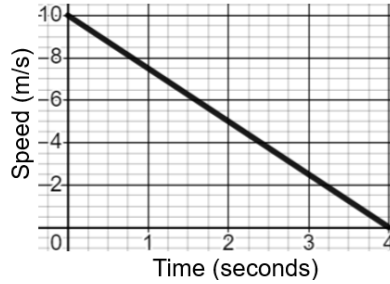
Find the acceleration.



*10 km/h<sup>2</sup>*

**(b)**

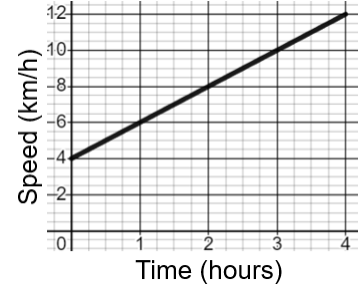
Find the deceleration.



*2.5 m/s<sup>2</sup>*

**(c)**

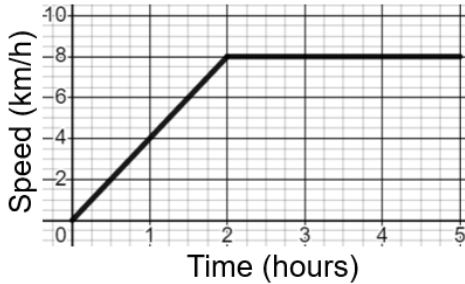
Find the acceleration.



*2 km/h<sup>2</sup>*

**(d)**

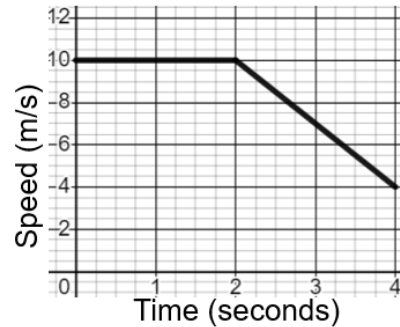
Describe each step of the journey, stating the values of any acceleration or deceleration.



*Acceleration of 4 km/h<sup>2</sup> for two hours, followed by constant speed of 8 km/h*

**(e)**

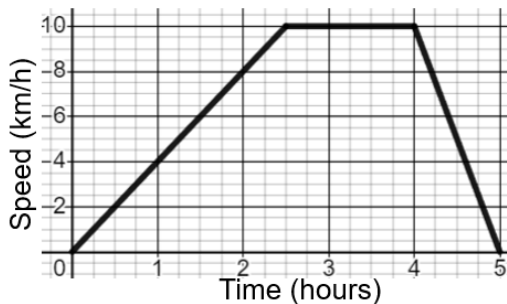
Describe each step of the journey, stating the values of any acceleration or deceleration.



*Constant speed of 10 m/s for two seconds, followed by deceleration of 3 m/s<sup>2</sup>*

**(f)**

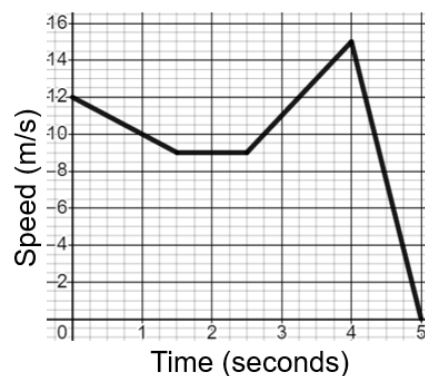
Describe each stage of the speed-time graph, calculating the values of any acceleration and deceleration.



*Acceleration of 4 km/h<sup>2</sup> for 2.5 hours, constant speed of 10 km/h for 1.5 hours then deceleration of 2 km/h<sup>2</sup>*

**(g)**

Describe each stage of the speed-time graph, calculating the values of any acceleration and deceleration.



*Deceleration of 2 m/s<sup>2</sup> Constant speed of 9 m/s Acceleration of 4 m/s<sup>2</sup> Deceleration of 15 m/s<sup>2</sup>*