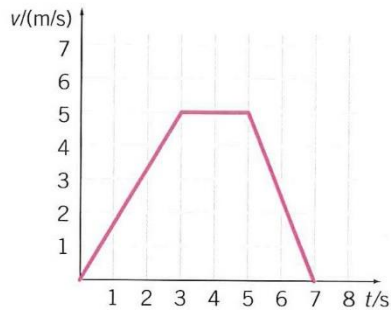


## Tressfysikk – Løsning oppgave 1.325

Fartsgrafen til en partikkel som funksjon av tiden er:



a) Akselerasjonen  $a$  for de forskjellige tidsintervallene er:

$$a_1 = \frac{\Delta v_1}{\Delta t_1} = \frac{5,0 \text{ [m/s]} - 0,0 \text{ [m/s]}}{3,0 \text{ [s]} - 0,0 \text{ [s]}} = 1,7 \text{ [m/s}^2\text{]}$$

$$a_2 = \frac{\Delta v_2}{\Delta t_2} = \frac{5,0 \text{ [m/s]} - 5,0 \text{ [m/s]}}{5,0 \text{ [s]} - 3,0 \text{ [s]}} = 0,0 \text{ [m/s}^2\text{]}$$

$$a_3 = \frac{\Delta v_3}{\Delta t_3} = \frac{0,0 \text{ [m/s]} - 5,0 \text{ [m/s]}}{7,0 \text{ [s]} - 5,0 \text{ [s]}} = -2,5 \text{ [m/s}^2\text{]}$$

b)

