

### Question

The velocity will be equal  $V = V_0 + a \cdot t = -3 + 2.75 \cdot 5 = -3 + 13.75 = 10.75 \frac{m}{s}$ .

The displacement:  $d = V_0 \cdot t + \frac{a \cdot t^2}{2} = -3 \cdot 5 + \frac{2.75 \cdot 25}{2} = -15 + 34.375 = 19.375 \text{ m}$ .

Answer: velocity:  $10.75 \frac{m}{s}$ ; displacement: 19.375 m.