

3

(a) Distance = $\frac{1}{2} \times 4 \times 9 + 16 \times 9$ or $\frac{1}{2} (20 + 16) \times 9$ M1

$$= \underline{162 \text{ m}}$$

A1
(2)

(b) Distance over last 5 s = $\frac{1}{2}(9 + u) \times 5$ M1

$$162 + \frac{1}{2}(9 + u) \times 5 = 200$$

M1 A1√

$$\Rightarrow u = \underline{6.2 \text{ m s}^{-1}}$$

A1
(4)

(c) $6.2 = 9 + 5a$ M1 A1√

$$a = (-) \underline{0.56 \text{ m s}^{-2}}$$

A1
(3)

(a) M1 for valid attempt to find area (as triangle + rectangle, or as trapezium)

(b) M1 for valid attempt to find area of the trap.

M1 for setting up eqn appropriately; A1√ on '162' (only)

(c) M1 for forming valid equation in a only (but allow their ' a ' as acceleration or deceleration)

A1√ on 6.2 only.

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Tao Wei



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