

4.2 A: Trapezoidal Appx:

① $\frac{11}{4} \text{ units}^2$

② -9.125 units^2

- ③ (a) $= 50.5 \text{ units}^2$
- (b) Underestimation

- ④ (a) $= 460 \text{ units}^2$,
- (b) 508 units^2
- (c) 484 units^2

- ⑤ (a) $18,450 \text{ units}^2$
- (b) $17,795 \text{ units}^2$

⑥ 19.5 units^2

⑦ 20 units^2

⑧ 80.8 units^2

- ⑨ (a) $-\frac{7}{2} \text{ }^\circ\text{C}/\text{min}$
- (b) 605.5 units^2 $\int_0^8 T(x) dx$