

5.2

⑤ answer = d) 93.47

- 98.35 + 100.12 are too small + too large. Since the graph of f is above $y=80$ for $0 \leq t \leq 0.95$ the best estimate is 93.47 not 71.84

②⑨ a) $\int_{-3}^0 f(x) dx = \boxed{-2}$ Area = $(\frac{1}{2} \cdot 1) + (-1) + (\frac{1}{2} \cdot 1) = -2$

b) $\int_{-3}^4 f(x) dx = \int_{-3}^0 f(x) dx + \int_0^3 f(x) dx + \int_3^4 f(x) dx = -2 + 2 - \frac{A}{2} = \boxed{-\frac{A}{2}}$