## 12 | estimate area

Right handed Riemann Sum:

$$0.5 + 4 + 10 + 13 + 10 + 0 = 37.5$$

## 13 | estimate area again

$$4(200 + 2700 + 1100 + 4000 + 200) = 32800$$

## 14 | area between curves

$$\int_{0}^{10} 2200e^{0.024t}dx - \int_{0}^{10} 1360e^{0.018t}dx = \frac{1}{0.024}2200e^{0.024t} - \frac{1}{0.018}1360e^{0.018t}$$

$$\implies \frac{1}{0.024}2200e^{0.24} - \frac{1}{0.018}1360e^{0.18} - \frac{1}{0.024}2200 + \frac{1}{0.018}1360 \approx 9964$$

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