

**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**

$$\int_0^{10} 2200e^{0.024t} - 1360e^{0.018t} dx$$