1. A forest fire covers 1000 acres at time $t = 0$ and grows at $20t + 10$ acres per hour. Write down a formula expressing the total acres covered when $t = 24$. (Do not evaluate the integral.)

2. The population of the world $t$ years after the year 2000 is predicted to be $6.1e^{0.0125t}$ billion. Write down an expression giving the average world population in the decade 2010–2020 in billions. (Do not evaluate the integral.)