Problem 2: Evaluate the following sum by representing it as a Riemann integral and evaluating the integral:

$$\lim_{n \to \infty} \sum_{k=0}^{n-1} \frac{2}{n} \left(\left(\frac{2i}{n} \right)^3 + \frac{6i}{n} - 10 \right)$$

Problem 3: Evaluate the integral by interpreting it in terms of area: $\int_{-2}^{2} \left(1 + x - \sqrt{4 - x^2}\right) dx$