MA 137 Worksheet #26

1. Compute
$$\sum_{k=11}^{20}(3k+2)$$

2. Recognize the sum as a Riemann sum and express the limit as an integral.

$$\lim_{n\to\infty}\sum_{i=1}^{n}\frac{i^3}{n^4}$$

3. Evaluate the following integrals by interpreting them in terms of areas:

(a) $\displaystyle\int_{-2}^{3}|2x-1|dx$

(b) $\displaystyle\int_{0}^{4}\sqrt{16-x^2}dx$