

Calculus II Chapters 7 - 9 Practice Problem Solutions

Short answers:

(1) use calculator to verify answers to integrals;

(2) (a) = (b) = 64, (c) = 68 ;

(3) $R_n < M_n < \int_a^b f(x)dx < T_n < L_n$;

(4a) diverges to ∞ , (4b) converges to -1;

(5) 48,750 lbs;

(6) ($2a/3$, $b/3$);

(7) $y = \sqrt[3]{x^2 / 2 - \cos(x) + 9}$;

(8c) $y(.2) \approx .57$;

(9) $t = 10$ mins;

(10) $Q(t) = .5 + 3.5e^{-4t}$, $I(t) = -14e^{-4t}$.

(11) see text book.