Math 204. Homework 3

Problems from W.E. Boyce, R.C. Diprima, D.B. Meade:

Section 2.8 p. 89, Problems: 2, 5, 7, 11, 14.

Section 3.1 p. 107, Problems: 4, 5, 13, 15.

Problem A Show that if w(t) is continuous, nonnegative on some interval [0,T] and satisfies the inequality

$$w(t) \le 5 \int_0^t w(s) ds \ \forall t \in [0, T]$$

then w(t) = 0, $\forall t \in [0, T]$.