Answers to Test Ib

1. (b) $t_1 = 2.83 \text{ s, } t_2 = 10.5 \text{ s}$
   (c) $x_T = 105 \text{ m}$

2. (a) $t_{AC} = 0.577 \text{ s}$
   (b) $\delta = 5.37 \text{ ft}$
   (c) $v_c = 1991 \text{ ft/s}$


4. See text.