

# CE 201 (486) [081]

## H.W. #3 Final Answers

1) (a), (b), (c) [each]:

$$T = W \quad \text{or} \quad \frac{1}{2} W \quad \text{or} \quad \frac{1}{4} W \quad \text{or} \quad \frac{1}{8} W$$

$$\text{or} \quad 2W \quad \text{or} \quad 4W \quad \text{or} \quad 8W$$

2)  $\alpha = 6.442^\circ \quad \text{or} \quad 17.15^\circ$

$T = 1600.1 \quad \text{or} \quad 200.1$

3) Given to you (Prove)

4) (a)  $T_{AB} = 621.1 \quad \text{or} \quad 896.6$

$T_{AC} = 945.4 \quad \text{or} \quad 732.1$

$T_{CE} = 634.0 \quad \text{or} \quad 221.0$

$T_{CD} = 521.0 \quad \text{or} \quad 366.0$

(b)

$T_{AB} = 921.9 \quad \text{or} \quad 687.9$

5)  $T_{Ac} \approx 6.8 \quad \text{or} \quad 35.9$

$T_{AD} \approx 29.4 \quad \text{or} \quad 5.5$

$T_{Ao} \approx 43.3 \quad \text{or} \quad 37.6$