

ENGR 1990 Engineering Mathematics
Homework #6 Answers

1. $\begin{Bmatrix} I_1 \\ I_2 \end{Bmatrix} \approx \begin{Bmatrix} 0.353 \\ 1.48 \end{Bmatrix}$ (amps)

2. $F_{AB} = 600$ (lb), $F_{AC} = 820$ (lb)

3. $T = \frac{W}{2 \sin(\theta)}$

4. a) $(M_A)_P = -2000k$ (ft-lb)

b) $C = 100$ (lb)

c) $A = -200i - 100j$ (lb)

d) $F_{AB} = 112$ (lb) (tension) and $F_{BC} = -180$ (lb) (compression)