FCE = 1.74 KN] TCD = 0.53 KNT FAD =112 KN C

137.78

工程力學 Exam. #3 (12/19/2013)

- 1. (20pts) Using the method of joints, determine the force in each member of the truss shown in Fig. 1. State whether each member is in tension or compression.
- 2/ (20pts) Determine the force in members EH and GI of the truss shown in Fig. 2. (Hint: use 23,5kN C 22.5kNT section aa.).
- 3. (20pts) For the frame and loading shown in Fig. 3, determine the reactions at B and F
- 4. (20pts) Determine the magnitude of the gripping forces produces when two 300-N forces are applied as shown in Fig. 4. 8848,02 N 660 Nm
- 5. (20pts) A 12-m length of railroad rail of weight N/m is lifted by the tongs (火針) shown in Fig.

