

GROUP MEMBERS:

**CE 8060 – STRUCTURAL DYNAMICS**  
**Homework #17**

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Assigned: Tuesday, November 11, 2014

Due: Friday, November 14, 2014 (before 4:00 pm. at Dr. Atam's mailbox)

Homework must be done neatly in pencil, on 8 1/2" x 11" paper, stapled together. Each step must be easily followed; diagrams are useful. Your assumptions must be clearly stated.

*Make Sure to Write Both Group Members' Names!*

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**Question 1: (10 points)**

Derive the shape functions for  $\psi(2)$ ,  $\psi(3)$ , and  $\psi(4)$  for the Euler beam in Example #13.