1. Work Problem 2.1 from the textbook.

2. Work Problem 2.4 from the textbook.

3. Work Problem 2.5 from the textbook.

4. Work Problem 2.6 from the textbook.

**Problem 5** The steel framework shown below supports an 8 in. thick reinforced concrete (normal weight) slab for the floor of a library stack room. The dimensions of the floor are $b = 16$ ft and $a = 12$ ft. Sketch a diagram of the loads (considering both live load and dead load from the concrete slab) that act on Member BE and Member FD. You must indicate magnitudes of any distributed loads and point loads on the load diagrams of each member. *You may ignore the self-weights of Members BE and FD.* You should also calculate the magnitudes of the reaction forces at the supports for each member.