# Assignment #5, CSE 191
Fall, 2014

**General Guidelines:**

This assignment will NOT be collected, nor graded. However, you should carefully complete it as if it were to be graded. There will be a quiz based on this assignment (with very similar problems) during the week Oct 13 - 17.

The detailed solutions will be posted next Friday (Oct 10).

1. (0 points). Page 136, Prob 4.
2. (0 points). Page 136, Prob 14.
3. (0 points). Page 136, Prob 18 (d) and (e).
4. (0 points). Page 136, Prob 26 (a) (b) (c).
5. (0 points). Page 136, Prob 29.
6. (0 points). Page 137, Prob 30 (a) (b) (c).

Note: If your answer is "no", justify your answer by giving a counter example. If your answer is "yes", prove your answer.

7. (0 points) Page 137, Prob 39. (Explain why).
8. (0 points). Page 137, Prob 52 (a) and (b).
9. (0 points). Page 137, Prob 54.
10. (0 points). Page 137, Prob 56.
11. (0 points). There are 150 students in Engineering School. Among these students:

- 96 students has taken CSE 115.

- 86 students has taken CSE 191.

- 65 students has taken CSE 250.

- 46 students has taken both CSE 115 and CSE 191.

- 35 students has taken both CSE 115 and CSE 250.

- 35 students has taken both CSE 191 and CSE 250.

- 15 students has taken CSE 115, CSE 191 and CSE 250.

How many students have NOT taken any of 115, 191, and 250?

12. (0 points). Calculate the number of binary strings of length 7, with the first two bits = 01, and the last bit = 1.