ME529   **Homework 0**

1. One ball is drawn form a bag containing 3 white balls, 4 red balls and 5 black balls. Find the probability that (a) the ball is white; (b) the ball is white or red; (c) the ball is not red.

2. If five coins are tossed, find the probability that (a) all will show head; (b) exactly three will show head; (c) at least three will show head.

3. If a die is cast three times, find the probability that
   (a) an even number will be shown each time;
   (b) an odd number will appear just once;
   (c) sum of the three numbers will be even.

4. Ten students are seated at random in a row. Find the probability that two particular students are not seated side by side.