Scheduling

Please use template-Exc-3.ods (moodle) for tasks 1, 2, 5 and 6.
Start with time 0, all tasks are ready at t=0.
The template-sheet is automated, so you can use task numbers (1,2,3,4) and get automatically the colors (yellow, blue, red, green.)
Start with defining the deadlines!

u_i ($t_{p,i}$; $t_{exec,i}$)
t_r = 0;

Earliest Deadline First (EDF)

1. A System has 4 periodic tasks T_i (t_p; t_e) with
   T_1(8; 1); T_2(22; 6); T_3(15; 3) and T_2(20; 4).
   Construct a schedule using EDF for the System.

2. A System has 3 periodic tasks Ti (t_p; t_e) with
   a) T_1(25; 9); T_2(15; 5); T_3(10; 2)
      Construct a schedule using EDF for the System in the interval [0,50]!

   b) T_1(12; 5); T_2(15; 4); T_3(10; 2)
      Construct a schedule using EDF for the System in the interval [0,50]!

Rate Monotonic Scheduling (RMS)

3. A System has 4 periodic tasks T_i (t_p; t_e) with
   T_1(8; 1); T_2(22; 6); T_3(15; 3) and T_2(20; 4).
   Construct a schedule using RMS in the interval [0,50]!

4. A System has 3 periodic tasks Ti (t_p; t_e) with
   a) T_1(25; 9); T_2(15; 5); T_3(10; 2)
      Construct a schedule using RMS in the interval [0,50]!

   b) T_1(12; 5); T_2(15; 4); T_3(10; 2)
      Construct a schedule using RMS in the interval [0,50]!

5. Calculate the load of the examples in 3. and 4. .

6. Calculate the schedulability test for the examples in 3. and 4.