#3.5

for (;;) { toxA ();
 task_B();
 task_C();
 task_A();
 task_B();
 task_B();
 task_A();
 task_A();
 task_A();
 task_A();

#3.13

The noin difference between EDF and RM schedulling methods is that they are best suited for different cases. EDF is dynamic, that is why it show, best performance in impredictable environment, while RM is static, so it is schedulling is less flexible, however best choice for critical and dangerous processes. Because in RM we can guarantee that processes with lower periods runs tasks which is not important at the noment, and doesn't run highly important tasks, so we can't control EDF.

#2.16
$$T_{1} = \{0.8, 2\} \quad T_{2} = \{1.4, 4\} \quad T_{3} = \{2, 8\} \quad U = \frac{0.8}{2} + \frac{1.4}{4} + \frac{2}{8} = 100\%$$

$$T_{1} = \{0.8, 2\} \quad T_{1} = \{0.8, 2\} \quad T_{2} = \{0.8, 2\} \quad T_{3} = \{0.8, 2\} \quad T_{4} = \{0.8, 2\} \quad T_{5} = \{0.8, 2\} \quad$$

$$T_1 = \{1 \mid 5 \mid 4\}$$
 $T_2 = \{2 \mid 8 \mid 6\}$ $T_3 = \{1 \mid 4 \mid 3\}$

[]= 1 + 2 + 1 = 0.7 (1 >) EDF is feasible

$$#7.4$$
 $P_1 = 10$ $P_2 = 100$ $P_3 = 500$ $P_4 = 1000$ $e_1 = 2$ $e_2 = 15$ $e_3 = 100$ $e_4 = 10$

#7.5)
$$f = \{25, 50\}$$
 = $b = \{100, -3\}$ $0 = 0.1 \text{ ns}$
 $50 \times 7, 8825 \times +100 + (2x-1)0.1$
 $24.8 \times 7, 85, 9$
 $\times 7, [4.03]$

Tunnaround = 5x25+00+ 9x0.1-225.9 mg

W=40ms = time to complete all three tasks:

4.4+ 2x5+ 1x10 = 36

40-36=4 left for background, but 5 is needed,

therefor H=80.

Given priorities maker inpossible the scheduling Taking to assumption that there is typo. And changing priorities of 2 and 3rd

 $b)_{1} = \frac{4}{10} + \frac{5}{20} + \frac{10}{40} + \frac{5}{30} = 0.96$

e) if we evil add 21 ms of context switches, H=80 ms is not enough,

1)
$$H=120$$
 $U > \frac{4}{10} + \frac{5}{20} + \frac{10}{40} + \frac{5}{120} + \frac{21}{120} \sim 1.12\% > 100\%$

 $T_2 = 90-25 = 49$ $T_3 = 75-30 = 45$ $T_4 = 90-60 = 30$ $T_5 = 100-100 = 10$ T6= 120-105=15

c) W= 20-20=0 W2=45-25=20 W3=45-25=20 W4=30-15=15 W5=10-10=0 W6=15-10=5

145.12

a)
$$qz \ln s$$
 $0 = 0 \ln s$ $U = \frac{q}{q+0} = \frac{1}{1,1} = 31\%$

b)
$$q = 10 \text{ ms}$$
 $0 = 0.1 \text{ ms}$ $1/0t = 1 \text{ m}$ $1/0t = 1 \text{ ms}$ $1/0t = 1 \text{$



