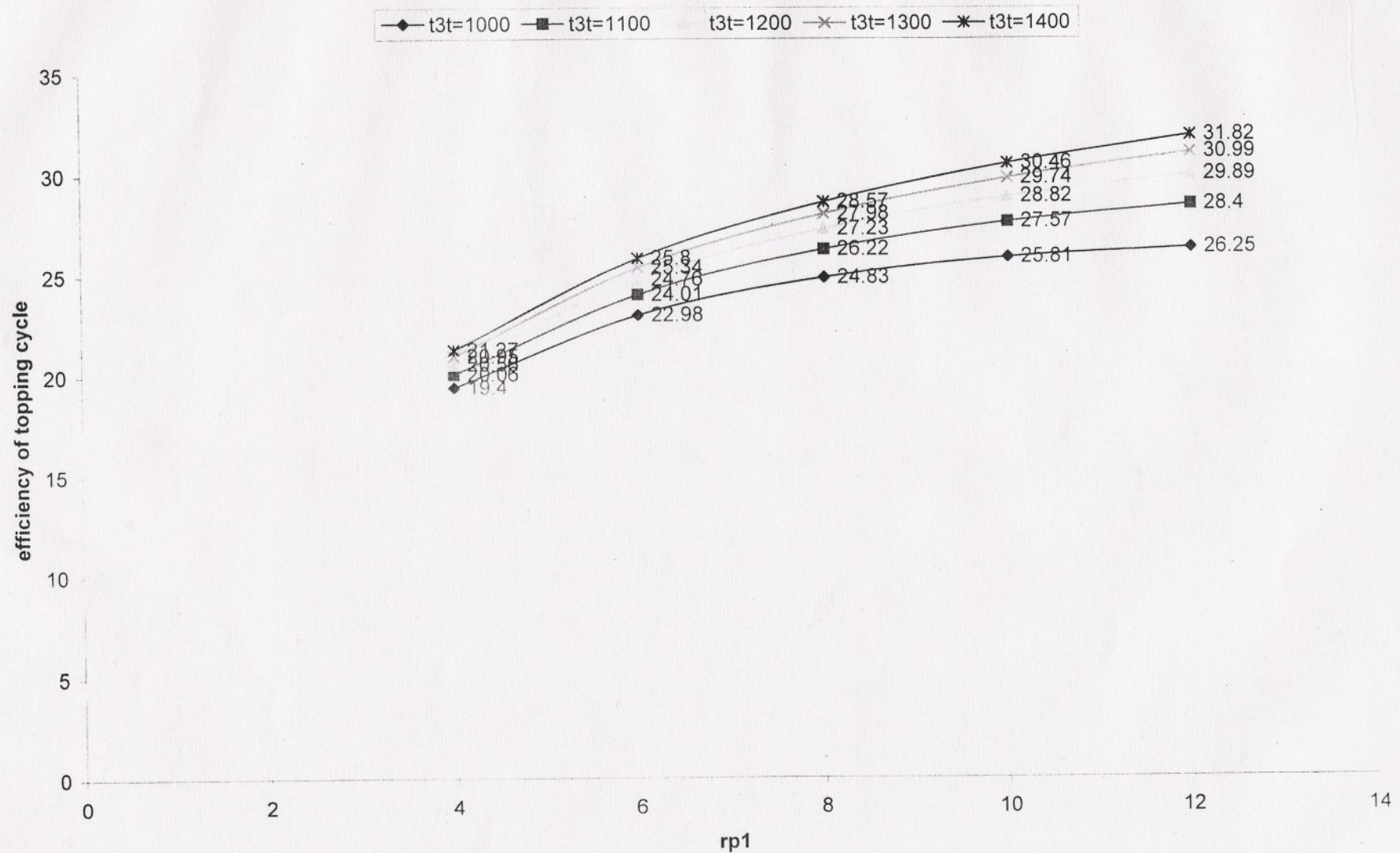
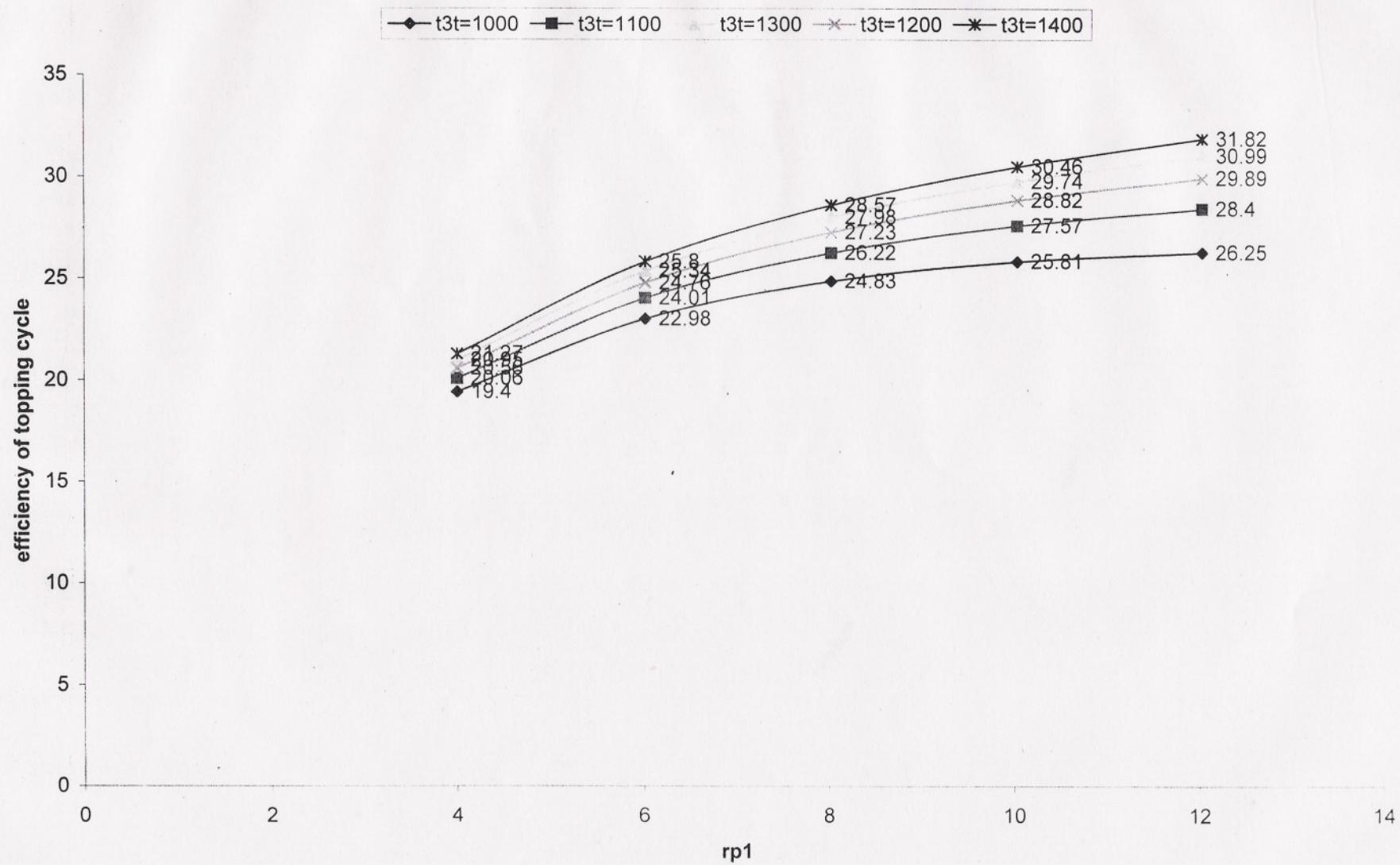


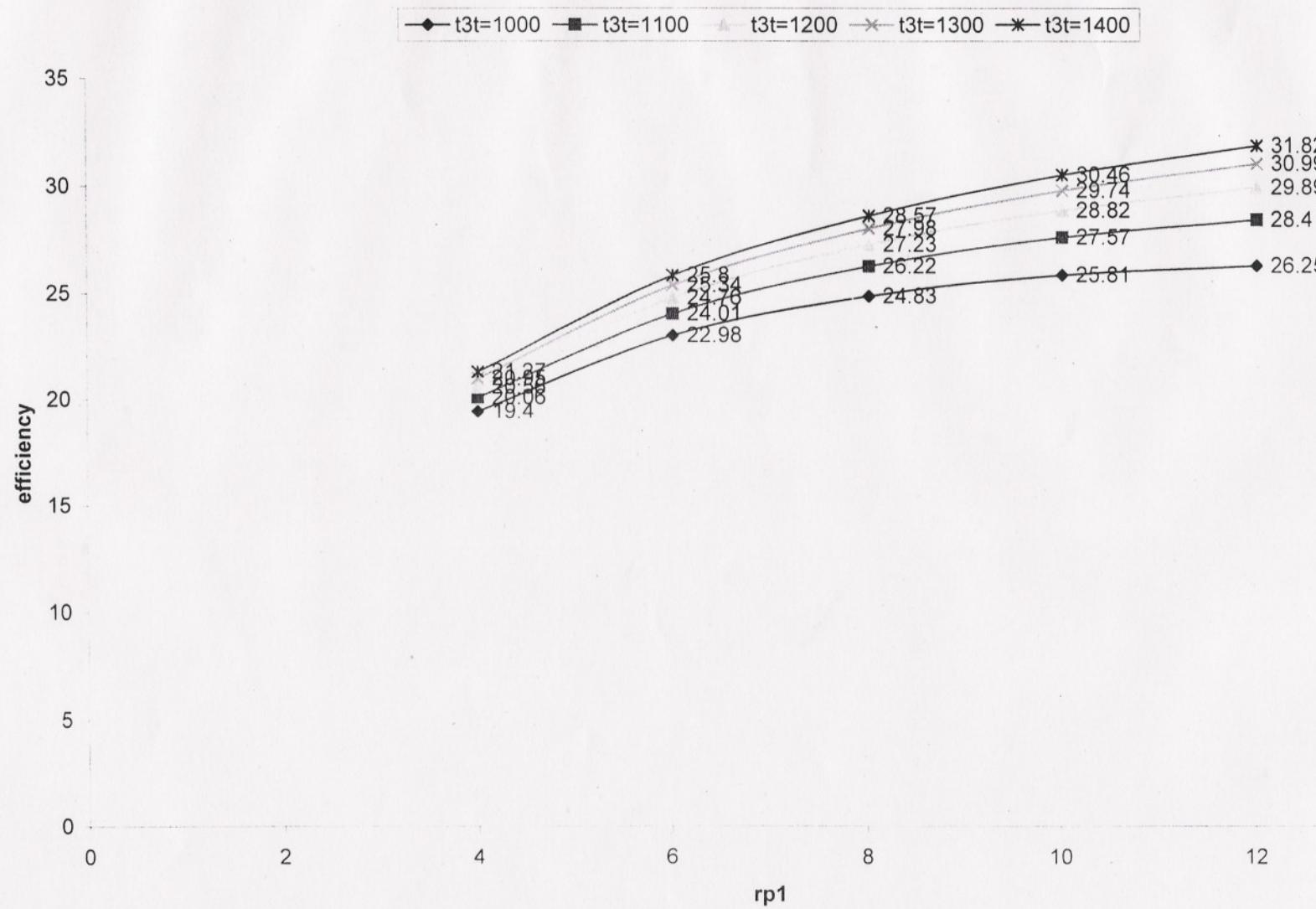
varition of efficiency of topping cycle w.r.t rp1 for different values of t3t at e=0.7



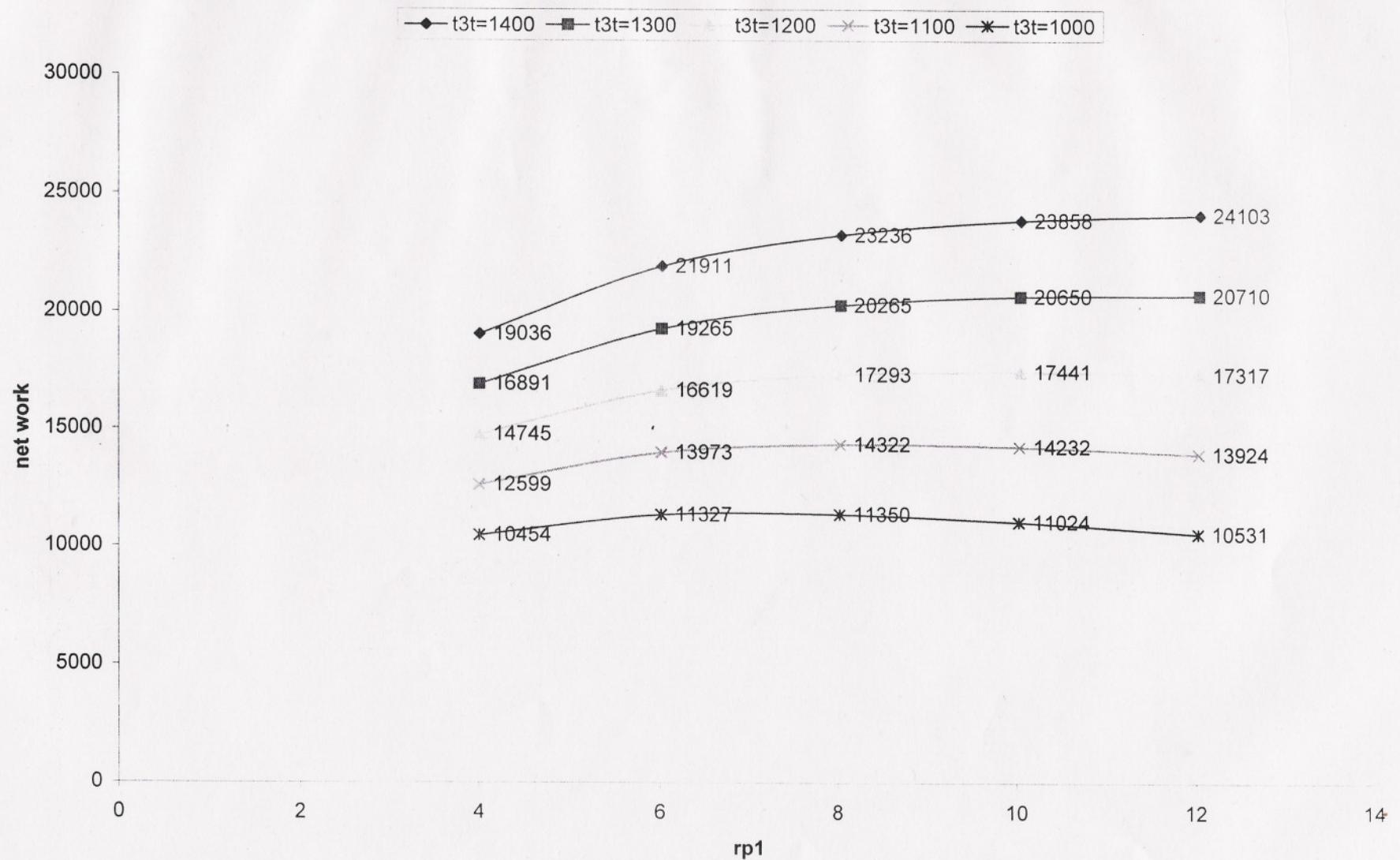
varition of efficiency of topping cycle for different values of t3t at e=0.8



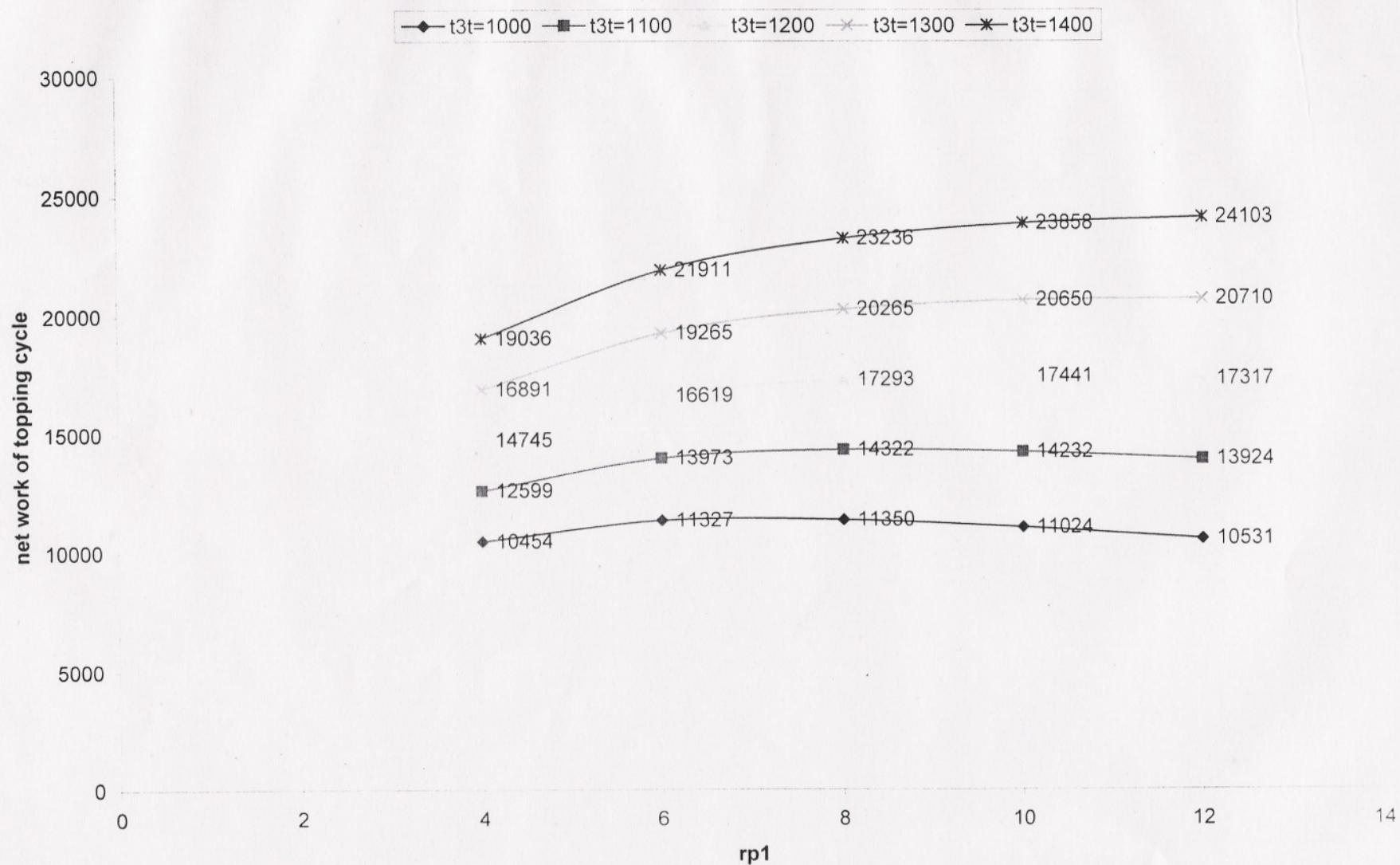
varition of efficiency of topping cycle w.r.t rp1 for no intercooler at e=0.9



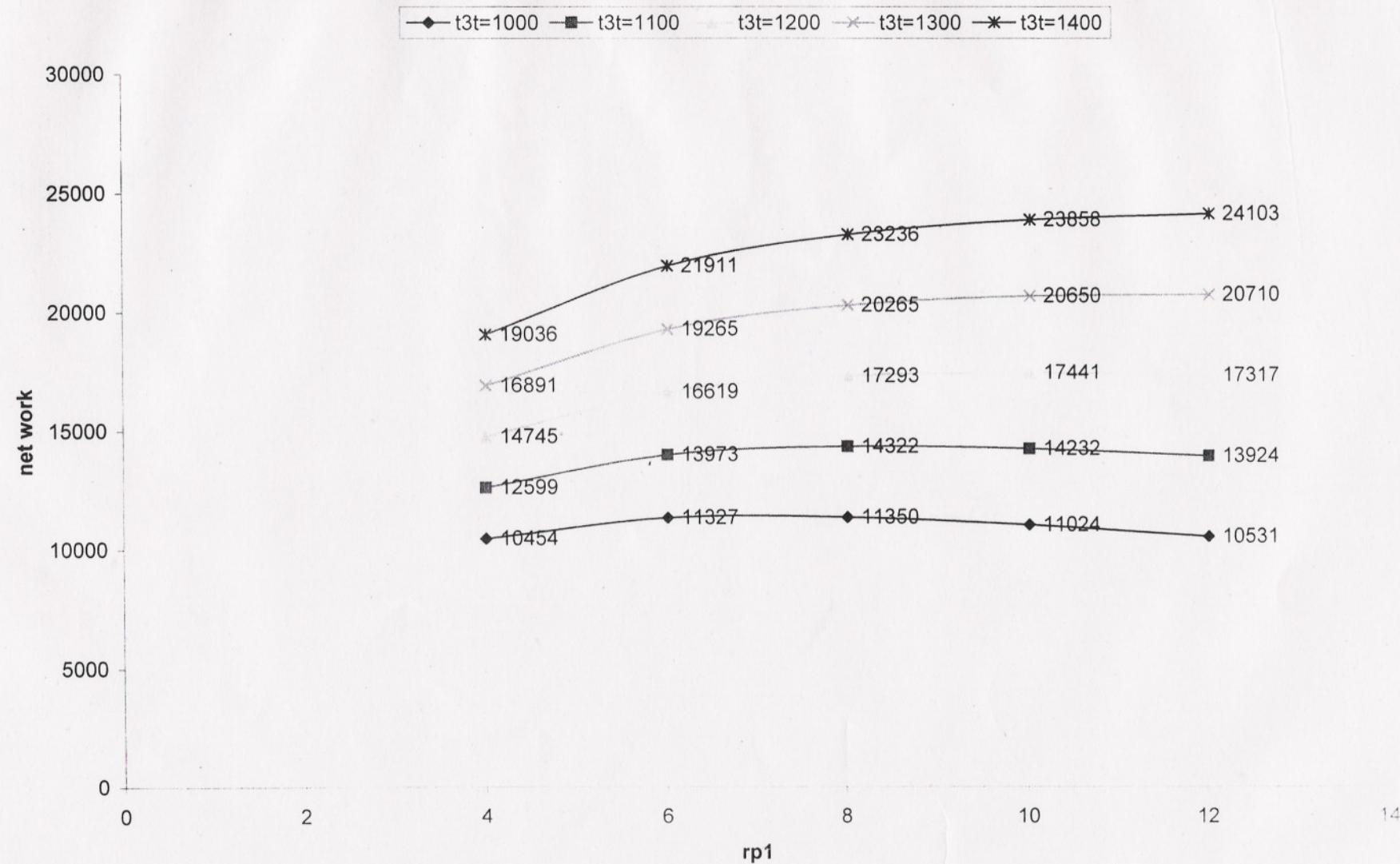
varition of net work of topping cycle w.r.t for different values of t3t at e=0.7



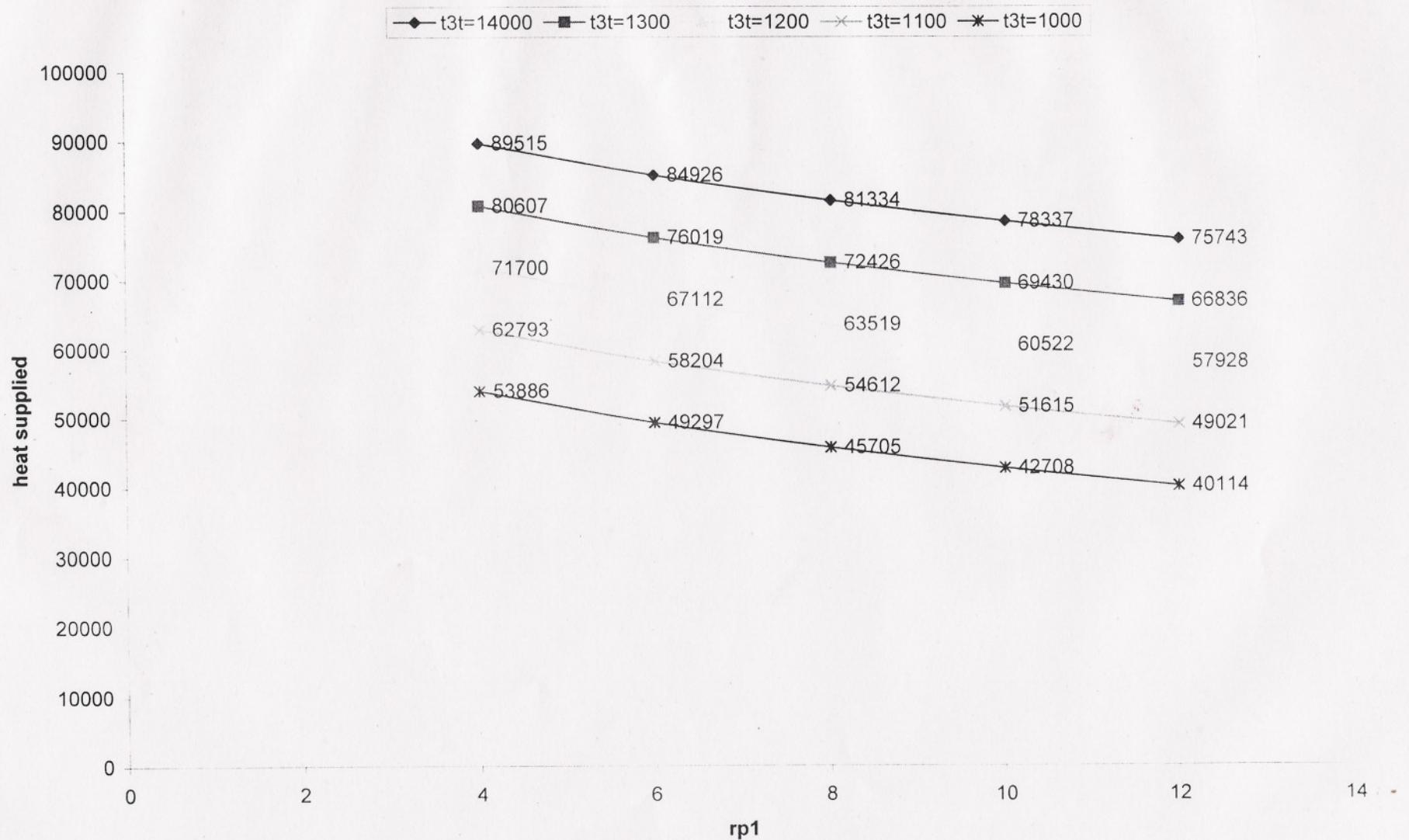
varition of net work done of topping cycle w.r.t rp1 for dirrerent values of t3t at e=0.8



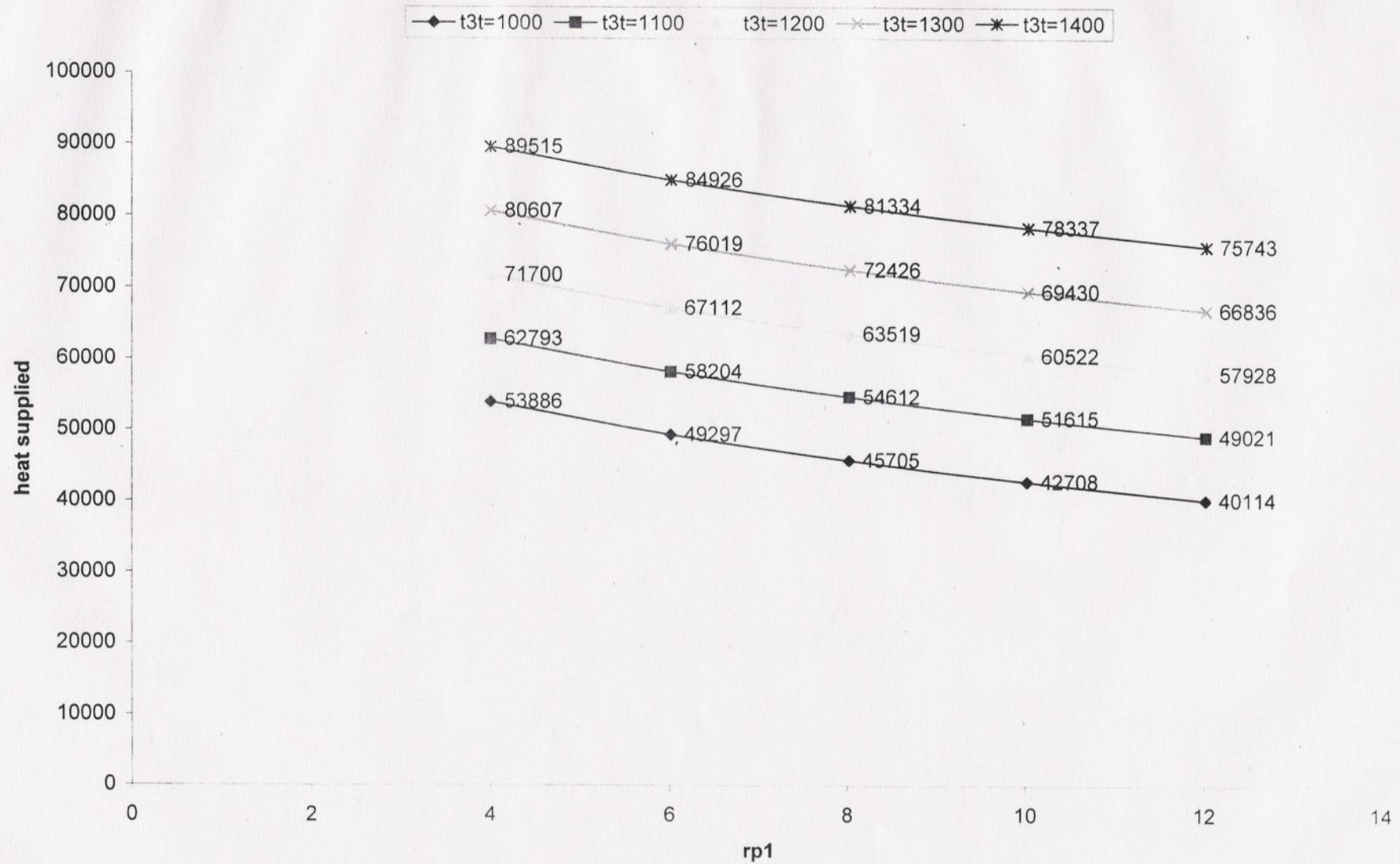
varition of net work of topping cycle w.r.t rp1 for different t3t at be=0.9



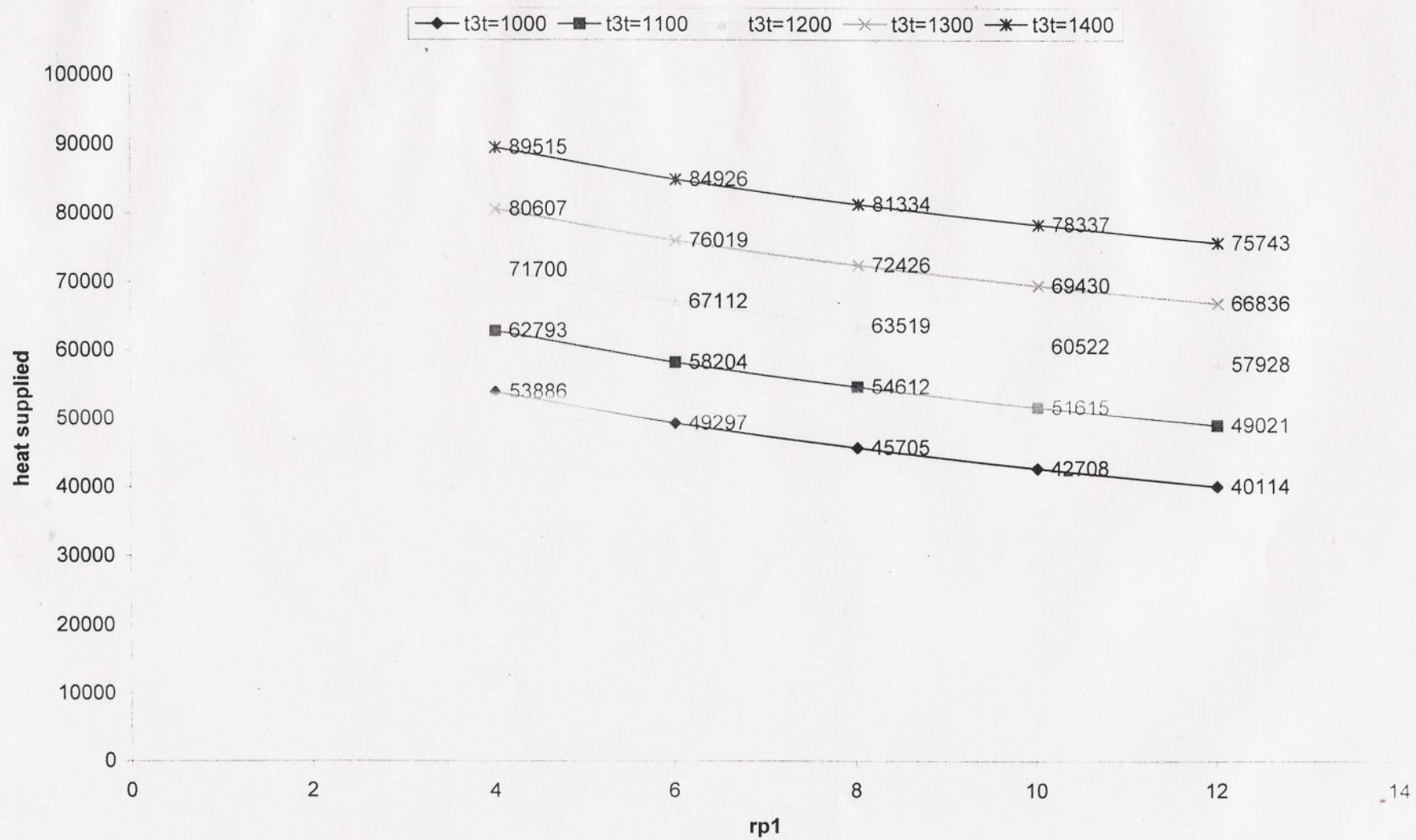
varition of heat supplied w.r.t rp1 for different values of t3t at e=0.7



varition of heat supplied w.r.t rp1 for different values of t3t at e=0.8



**varition of heat supplied in the combustio chamber of topping cycle w.r.t rp1 for different t3t
at e=0.9**



Discussion on Results:

a) Efficiency of Topping Cycle:

- ❖ The efficiency of topping cycle increases with increase in the turbine inlet temperature, t_{3t} for every particular value of pressure ratio of topping cycle (rp_1) of ABC.
- ❖ The efficiency of topping cycle increases with increase in with pressure ratio of topping cycle (rp_1) of ABC for any particular value of turbine inlet temperature of ABC
- ❖ The efficiency of topping cycle is independent of effectiveness of heat exchanger as well as mass flow rate of ABC.

b) Network of Topping Cycle:

- ❖ The network of topping cycle increases with increase in the turbine inlet temperature, t_{3t} for every particular value of pressure ratio of topping cycle (rp_1) of ABC.
- ❖ The network of topping cycle increases with increase in with pressure ratio of topping cycle (rp_1) of ABC for any particular value of turbine inlet temperature of ABC
- ❖ The network of topping cycle is independent of effectiveness of heat exchanger as well as mass flow rate of ABC.

a) **Heat supplied of Topping Cycle:**

- ❖ The heat supplied in combustion chamber of topping cycle increases with increase in the turbine inlet temperature, t_3t for every particular value of pressure ratio of topping cycle (r_{p1}) of ABC.
- ❖ The heat supplied in combustion chamber of topping cycle increases with increase in with pressure ratio of topping cycle (r_{p1}) of ABC for any particular value of turbine inlet temperature of ABC
- ❖ The heat supplied in combustion chamber of topping cycle is independent of effectiveness of heat exchanger as well as mass flow rate of ABC.