Report

ASSignment3

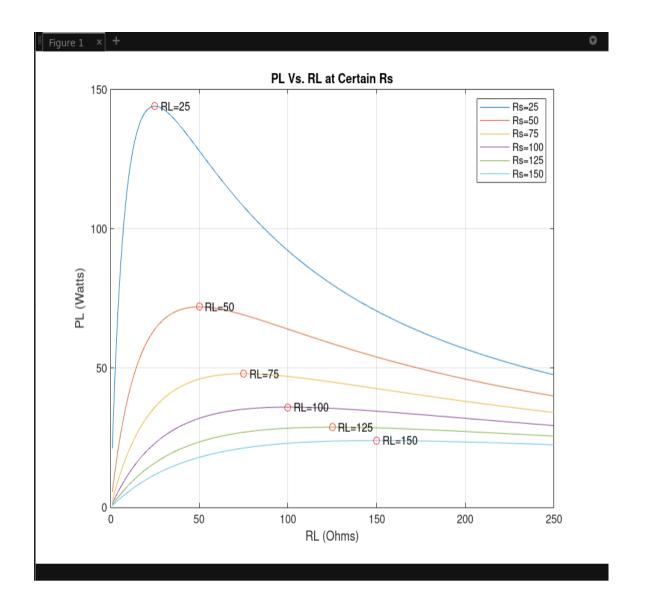
Computer Aided Design (CAD)

Dr. Sawsan Abdellatif

Karem Atef Mohamedy Emam

B.n: 31

Sec: 2



```
Assignment3.m × +
        % karem Atef Mohamedy
        % Sec : 2
        % i used an online editor , so the result may be diffrent in anthor editor.
        V = 120;
        RL = 1:0.1:250;
    早
        for RS=25:25:150
            PL = (V^2)*RL./(RS+RL).^2;
             plot(RL,PL);
             hold on
         for RS=25:25:150
    早
            PLmax = (V^2)*RS/(2*RS)^2;
             plot(RS,PLmax,'ro-');
            hold on
            text(RS,PLmax," RL="+RS,'FontSize',10);
            hold off
            xlabel('RL (Ohms)');
            ylabel('PL (Watts)');
             title('PL Vs. RL at Certain Rs');
             grid on;
             legend('Rs=25', 'Rs=50', 'Rs=75', 'Rs=100', 'Rs=125', 'Rs=150', 'Location', 'NorthEast'
```

