```
clc
clear
close all
%%
syms a
g = 9.81;
Isp1 = 275;
Isp2 = 400;
e1
    = 0.08;
e2
     = 0.15;
u
     = 7700+1200;
\mathsf{sum} \ = \ ((((1/e1)*(1-(1/(a*g*Isp1))))^(g*Isp1/u)) \ * \ (((1/e2)*(1-(1/(a*g*Isp2))))^(g*Isp2/u))) - \mathsf{exp} \quad \checkmark
(1) == 0;
a = double(vpasolve(sum, a));
11 = e1/(a*g*Isp1*(1-e1)-1);
12 = e2/(a*g*Isp2*(1-e2)-1);
%%
u1 = Isp1*g*log((1+l1)/(e1+l1));
u2 = Isp2*g*log((1+l2)/(e2+l2));
utot = u1+u2;
```