```
function [r_out,v_out] = Gibbs_method(r_1,r_2,r_3,mu)
%UNTITLED Summary of this function goes here
  Detailed explanation goes here
r_1_norm = norm(r_1);
r_2_norm = norm(r_2);
r_3_norm = norm(r_3);
C_{1_2} = cross(r_1, r_2);
C_{2_3} = cross(r_{2_r_3});
C_3_1 = cross(r_3,r_1);
u_r = r_2/r_2_norm;
flag_vec = C_2_3/norm(C_2_3);
flag = dot(u_r,flag_vec);
tolerance = 1*(10)^{(-16)};
if flag < tolerance</pre>
    N = r_1_norm*C_2_3 + r_2_norm*C_3_1 + ...
        r_3_norm*C_1_2;
    D = cross(r_1,r_2) + cross(r_2,r_3) + cross(r_3,r_1);
    S = r_1*(r_2\_norm - r_3\_norm) + r_2*(r_3\_norm - r_1\_norm) + ...
        r_3*(r_1_norm - r_2_norm);
end
    v_out = sqrt(mu/(norm(D)*norm(N)))*((cross(D,r_2)/r_2_norm)+S);
    r_out = r_2;
end
Not enough input arguments.
Error in Gibbs_method (line 4)
r_1_norm = norm(r_1);
```

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