Equation solved.

fsolve completed because the vector of function values is near zero
as measured by the value of the function tolerance, and
the problem appears regular as measured by the gradient.

<stopping criteria details>
Problem 3.)9.5.)
a.)
Deltav_Hohmann_Earth = 0.295152 EMOS = 8.79061 km/s
Deltav_Hohmann_Jupiter = 0.189461 EMOS = 5.64278 km/s
v_inf_Jupiter = 0.189461 EMOS = 5.64278 km/s
Deltav_FB = 0.372249 EMOS = 11.0868 km/s
delta = 2.76568 rad = 158.462°
v_sv0 = 0.625656 EMOS = 18.6341 km/s
v_e = 0.620174 EMOS = 18.4708 km/s

b.)
a_Sun = -146.417 au = -2.19036e+10 km
h_Sun = 3.2482 au*EMOS
e_Sun = 1.0354
f @ Jupiter = 0.111288 rad = 6.37636°

c.)
r_1 = 5.2 au
r_2 = 9.5388 au
f @ Saturn = 1.46815 rad = 84.1189°
theta = 1.35686 rad = 77.7425°
c = 9.8472 au = 1.47312e+09 km
s = 12.293 au = 1.83901e+09 km
t = 21.8663 ctu
n_Saturn = 0.0339475 rad/ctu
transfer_Saturn = 0.742308 rad = 42.5311°
beta = 0.614555 rad = 35.2114°
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