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>

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 4.)
Given:
r 1 = 1 au
r_2 = 1.524 au
theta = 75^{\circ} = 1.309 rad
mu = 1 au^3/ctu^2
t_F_a = 0.17 years
t_F_b = 0.34 \text{ years}
t_F_c = 0.9 years
Common Calculations:
c = 1.59176 au
s = 2.05788 au
t_p = 1.24161 ctu = 0.197618 years
t_m = 3.11728 ctu = 0.496155 years
Problem 4.)a.)
t_F_a < t_p; so, no elliptic transfer orbit exists.
Problem 4.)b.)
a_b = 1.28303 au
Problem 4.)c.)
a c = 1.11092 au
>>
```