```
include("../../code/sfd.jl")
using .SpaceFlightDynamics
using LinearAlgebra
r1 = [8000.0, 0.0, 0.0]
r2 = [7000.0, 7000.0, 0.0]
TOF = 3600.0
v1, v2, e, rp = solve_lambert(r1, r2, TOF; long_way=false)
r1\_norm = norm(r1)
v_{circ1} = [0.0,
              sqrt(\mu_Earth / r1_norm),
              0.0]
r2\_norm = norm(r2)
t_hat2 = [-r2[2], r2[1], 0.0] ./ r2_norm
v\_circ2 = sqrt(\mu\_Earth / r2\_norm) .* t\_hat2
\Delta V1 = norm(v1 .- v_circ1)
\Delta V2 = norm(v2 \cdot - v_circ2)
\Delta V_{-}total = \Delta V1 + \Delta V2
println("\DeltaV at departure (km/s): ", \DeltaV1)
println("\DeltaV at arrival (km/s): ", \DeltaV2)
println("Total \Delta V
                             (km/s): ", \DeltaV_total)
\Delta {\tt V} at departure (km/s): 6.535402184960239
\Delta {	t V} at arrival
                  (km/s): 5.235910109612791
                    (km/s): 11.771312294573029
Total \Delta \mathtt{V}
```