```
CLEARSCREEN.
SET THROTTLE TO 1.0.
WHEN SHIP:MAXTHRUST = 0 THEN {
       STAGE.
       PRESERVE.
}.
SET MYSTEER TO HEADING(90,90).
LOCK STEERING TO MYSTEER.
WAIT UNTIL STAGE: SOLIDFUEL < 0.1.
STAGE.
Local DesiredTarget is 75000.
UNTIL SHIP:APOAPSIS > DesiredTarget {
       local DesiredHeading is 90*(1-SHIP:ALTITUDE/DesiredTarget).
       SET MYSTEER TO HEADING(90,DesiredHeading).
}.
UNTIL SHIP:PERIAPSIS > (DesiredTarget - 4000) {
       IF SHIP:APOAPSIS > (DesiredTarget*1.01) {
              SET MYSTEER TO HEADING(90,-2*(15+SHIP:APOAPSIS/DesiredTarget)).
       } ELSE {
              SET MYSTEER TO HEADING(90,-7).
       }.
}.
SET THROTTLE TO 0.0.
function absang {
       parameter obt.
       Return mod(obt:lan + obt:argumentofperiapsis + obt:trueanomaly, 360).
}
function norm {
```

```
parameter ang.
       Return mod(ang, 360).
}
function ang_diff {
       parameter a0.
       parameter a1.
       set a0 to norm(a0).
       set a1 to norm(a1).
       return mod(a0 - a1,360).
}
local mun_ang is absang(mun:orbit).
local ship_ang is absang(ship:orbit).
local burn_ang is norm(mun_ang + 235).
local d_theta is ang_diff(burn_ang, ship_ang).
local orbit_rate is ship:orbit:period / 360.
local burn_time is d_theta * orbit_rate.
print burn_time.
Wait burn_time.
SET MYSTEER TO HEADING(90,5).
SET THROTTLE TO 1.0.
UNTIL (SHIP:APOAPSIS - MUN:ORBIT:APOAPSIS) > 1000 {
       SET THROTTLE TO 1.0.
}
UNTIL SHIP:ALTITUDE < 10000 {
       SET THROTTLE TO 0.0.
}
UNTIL SHIP:VERTICALSPEED > -5 {
       SET MYSTEER TO HEADING(90,90).
       SET THROTTLE TO 1.0.
```

```
}
```

SET THROTTLE TO 0.0.