Part a.)
v_c_1 = 6.65499 km/s
v_p_2 = 7.05499 km/s
a_2 = 10271.9 km
h_2 = 63494.9 km^2/s
e_2 = 0.123823
r_a_2 = 11543.8 km
alt_p_2 = 2621.88 km
alt_a_2 = 5165.68 km

Part b.)
v_c_1 = 6.65499 km/s
v_a_2 = 6.25499 km/s
a_2 = 8060.2 km
h_2 = 56294.9 km^2/s
e_2 = 0.116598
r_p_2 = 7120.4 km
alt_p_2 = 742.276 km
alt_a_2 = 2621.88 km
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