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Problem 1.)9.2.)
Part a.)
v_inf_Earth = 0.0988689 EMOS = 2.94464 km/s
v_inf_Mars = 0.0889372 EMOS = 2.64884 km/s
v_p_hyper_Earth = 11.0591 km/s
v_p_hyper_Mars = 5.14075 km/s
deltav_Earth = 0.118235 EMOS = 3.52144 km/s
deltav_Mars = 0.0680042 EMOS = 2.02539 km/s
deltav_total = 0.186239 EMOS = 5.54683 km/s

Part b.)
(Earth) delta / 2 = 1.05034 rad = 60.1803°

Part c.)
(Mars) Delta / Mars_radius = 2.52298 Mars radii
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