

Problem 4.)7.5.)

a.)

$\beta_{12} = 0.774248 \text{ rad} = 44.3612^\circ$

$\beta_{21} = -1.31229 \text{ rad} = -75.1888^\circ$

b.)

$n_{\text{Earth}} = 1.99099\text{e-}07 \text{ rad/s}$

$t_H = 2.23713\text{e+}07 \text{ s}$

$\theta_2 = 4.4541 \text{ rad} = 255.201^\circ$

c.)

$n_{\text{Mars}} = 1.05857\text{e-}07 \text{ rad/s}$

$t_{\text{opp}} = 96.1068 \text{ days}$

d.)

$\theta_{\text{opp}} = 0.816895 \text{ rad} = 46.8047^\circ$

e.)

$t_{\text{transfer}_2} = 452.186 \text{ days}$

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