$k := 10^3;$

$$1000 \tag{1}$$

$Rearth := 6380 \cdot k + 308;$

$$6380308 \tag{2}$$

$Rs := 20200 \cdot k + Rearth;\ \pi := 3.14159265358979;$

$$3.14159265358979 \tag{3}$$

$$Lons1 := \frac{-62.3256 \cdot \pi}{180};$$

$$-1.087786928 \tag{4}$$

$$Lons2 := \frac{-85.2234 \cdot \pi}{180};$$

$$-1.487428930 \tag{5}$$

$$Lons3 := \frac{-92.8388 \cdot \pi}{180};$$

$$-1.620342734 \tag{6}$$

$$Lats1 := \frac{7.8520 \cdot \pi}{180};$$

$$0.1370432529 \tag{7}$$

$$Lats2 := \frac{45.1053 \cdot \pi}{180};$$

$$0.7872359952 \tag{8}$$

$$Lats3 := \frac{29.7834 \cdot \pi}{180};$$

$$0.5198183924 \tag{9}$$

$c := 299860 \cdot k;$

$$299860000 \tag{10}$$

$PR1 := 0;$

$$0 \tag{11}$$

$PR2 := -0.003817986 \cdot c;$

$$-1.144861282\ 10^6 \tag{12}$$

$PR3 := -0.004077077 \cdot c;$

$$-1.222552309\ 10^6 \tag{13}$$

$Xs1 := Rs \cdot cos(Lons1) \cdot cos(Lats1);$

$$1.222938371\ 10^7 \tag{14}$$

$Xs2 := Rs \cdot cos(Lons2) \cdot cos(Lats2);$

$$1.562206497\ 10^6 \tag{15}$$

$Xs3 := Rs \cdot cos(Lons3) \cdot cos(Lats3);$

$$-1.142533303\ 10^6 \tag{16}$$

$Ys1 := Rs \cdot sin(Lons1) \cdot cos(Lats1);$

$$-2.331885277\ 10^7 \tag{17}$$

$Ys2 := Rs \cdot sin(Lons2) \cdot cos(Lats2);$

$$-1.869538576\ 10^7 \tag{18}$$

$Ys3 := Rs \cdot sin(Lons3) \cdot cos(Lats3);$

$$-2.304098923\ 10^7 \tag{19}$$

$Zs1 := Rs \cdot sin(Lats1);$

(20)

$$3.631260556\ 10^{6} \tag{20}$$

$Zs2 := Rs \cdot \sin(Lats2);$

$$1.882962653\ 10^{7} \tag{21}$$

$Zs3 := Rs \cdot \sin(Lats3);$

$$1.320303776\ 10^{7} \tag{22}$$

$Xe := Rearth \cdot \cos(Lone) \cdot \cos(Late);$

$$6380308 \cos(Lone) \cos(Late) \tag{23}$$

$Ye := Rearth \cdot \sin(Lone) \cdot \cos(Late);$

$$6380308 \sin(Lone) \cos(Late) \tag{24}$$

$Ze := Rearth \cdot \sin(Late);$

$$6380308 \sin(Late) \tag{25}$$

$f1 := -(PR1 - c \cdot \tau)^2 + (Xs1 - Xe)^2 + (Ys1 - Ye)^2 + (Zs1 - Ze)^2;$

$$\begin{aligned} &-89916019600000000\ \tau^2 + \left(1.222938371\ 10^{7} - 6380308 \cos(Lone) \cos(Late)\right)^2 \\ &\quad + \left(-2.331885277\ 10^{7} - 6380308 \sin(Lone) \cos(Late)\right)^2 \\ &\quad + \left(3.631260556\ 10^{6} - 6380308 \sin(Late)\right)^2 \end{aligned} \tag{26}$$

$f2 := -(PR2 - c \cdot \tau)^2 + (Xs2 - Xe)^2 + (Ys2 - Ye)^2 + (Zs2 - Ze)^2;$

$$\begin{aligned} &-\left(-1.144861282\ 10^{6} - 299860000\ \tau\right)^2 + \left(1.562206497\ 10^{6} - 6380308 \cos(Lone) \cos(Late)\right)^2 \\ &\quad + \left(-1.869538576\ 10^{7} - 6380308 \sin(Lone) \cos(Late)\right)^2 \\ &\quad + \left(1.882962653\ 10^{7} - 6380308 \sin(Late)\right)^2 \end{aligned} \tag{27}$$

$f3 := -(PR3 - c \cdot \tau)^2 + (Xs3 - Xe)^2 + (Ys3 - Ye)^2 + (Zs3 - Ze)^2;$

$$\begin{aligned} &-\left(-1.222552309\ 10^{6} - 299860000\ \tau\right)^2 \\ &\quad + \left(-1.142533303\ 10^{6} - 6380308 \cos(Lone) \cos(Late)\right)^2 \\ &\quad + \left(-2.304098923\ 10^{7} - 6380308 \sin(Lone) \cos(Late)\right)^2 \\ &\quad + \left(1.320303776\ 10^{7} - 6380308 \sin(Late)\right)^2 \end{aligned} \tag{28}$$

$solve(\{f1, f2, f3\}, \{Lone, Late, \tau\})$

$$\begin{aligned} &\{Late = -.6234490039, Lone = 1.494307093, \tau = 0.1057464540\}, \\ &\quad \{Late = 0.5894242338, \tau = -0.07172828348, Lone = -1.472872697\}, \\ &\quad \{\tau = 0.06841130937, Lone = -.9413204606, Late = 0.3733598620\}, \\ &\quad \{Late = -.2963846746, \tau = -.1091068699, Lone = 2.324680685\}, \\ &\quad \{\tau = 0.1057464540, Late = -2.518143650, Lone = -1.647285560\}, \\ &\quad \{\tau = -0.07172828348, Lone = 1.668719957, Late = 2.552168420\}, \\ &\quad \{\tau = 0.06841130937, Lone = 2.200272193, Late = 2.768232792\}, \\ &\quad \{\tau = -.1091068699, Late = -2.845207979, Lone = -.8169119683\} \end{aligned} \tag{29}$$