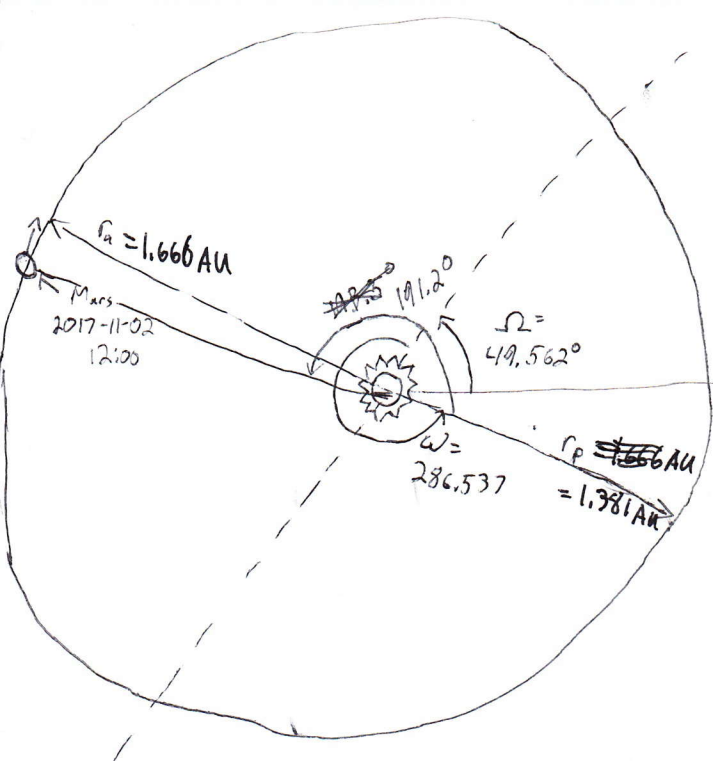


# Problem 9



$i = 1.85^\circ$  to ecliptic

J2000 @ 2000-01-01-T12:00

$M_{J2000} = 19.3564^\circ$

Elapsed Julian time  
= 6515 days

$P = 686.971$  days

2017-11-02-T12:00

$M_c = 3433.5^\circ$  (total travelled angle)

$M = 193.5^\circ$

$t_p = 369.2$  days

$E = 192.32^\circ$

$f = 168$

$191.2^\circ$

$$e = \frac{r_a - r_p}{r_a + r_p} = 0.0935$$

$r_a, r_p, M_{J2000}, \Omega, \omega, i$  from Wikipedia