7) a)
$$t_1 = 1.67 \times 10^7$$
 years

1) $t_2 = 5.36 \times 10^4$ years

9) a) $t_1 = 9.83 \times 10^6$

4) $t_2 = 5.81 \times 10^6$

9) a) $t_1 = 9.4.88 \times 10^6$

10) $t_2 = 9.600$

10) a) $t_1 = 9.600$

10) a) $t_2 = 4.02 \times 10^7$

10) b) $t_2 = 4.02 \times 10^7$

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$$\frac{1}{\sqrt{3}} = \frac{1}{\sqrt{3}} = \frac{1$$

$$v_{1} = 13.43 \text{ m}$$

$$v_{2} = -3.83 \text{ mp}$$

$$v_{3} = 7.81 \text{ mp}$$

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