

$$\begin{aligned}
 1. \quad I &= Prt \\
 I &= (5,798)(0.1161)(1) \\
 I &= \$673.15
 \end{aligned}$$

$$\begin{aligned}
 2. \quad I &= Prt \\
 42,698.72 &= (99,023)(r)\left(\frac{56}{12}\right)^{46} \\
 \frac{42,698.72}{462,107.\bar{3}} &= \frac{462,107.\bar{3}}{462,107.\bar{3}} r
 \end{aligned}$$

$$\begin{aligned}
 r &= 0.0924 \\
 r &= 9.24\%
 \end{aligned}$$

$$3. \quad I = Prt$$

$$40,986.10 = (194,824)(r)(5\frac{1}{12})^{4.25}$$

$$\frac{40,986.10}{828002} = \frac{828002 r}{828002}$$

$$r = 0.0495$$

$$r = 4.95 \%$$

$$4. \quad I = Prt$$

$$I = (9881)(0.0549)(30\frac{1}{12})^{2.5}$$

$$I = \$1,356.17$$

5.  $I = Prt$

$$192,193.66 = 731,006 (r) \left(\frac{25}{12}\right)^{2.08\bar{3}}$$

$$\frac{192,193.66}{1522929.167} = \frac{1522929.167 r}{1522929.167}$$

$$r = 0.12619$$

$$r = 12.62\%$$

6.  $I = Prt$

$$297.56 = 24,407(0.0209)(t)$$

$$\frac{297.56}{510.1063} = \frac{510.1063 t}{510.1063}$$

$$t = 0.583 \text{ years}$$

$$t = \frac{0.583}{12} \text{ or } 7 \text{ months}$$

$$\begin{aligned}
 7. \quad I &= Prt \\
 3271.03 &= 17,356(r)(22/12)^{1.8\bar{3}} \\
 \frac{3271.03}{31819.\bar{3}} &= \frac{31819.\bar{3}}{31819.\bar{3}} r \\
 r &= 0.1028 \\
 r &= 10.28\%
 \end{aligned}$$

$$\begin{aligned}
 8. \quad I &= Prt \\
 12,578.29 &= (271,963)(0.0111)(t) \\
 \frac{12,578.29}{3018.7893} &= \frac{3018.7893}{3018.7893} t \\
 t &= 4.17 \text{ years} \\
 &\quad \text{or} \\
 t &= 50 \text{ months}
 \end{aligned}$$

$$9. \quad I = Prt$$

$$I = (59,992)(0.0324)\left(\frac{51}{12}\right)^{\leftarrow 4.25}$$

$$I = \$8260.90$$

$$10. \quad I = Prt$$

$$940.93 = (P)(0.133)\left(\frac{32}{12}\right)^{\leftarrow 2.6}$$

$$\frac{940.93}{0.3546} = \frac{(P)(0.3546)}{0.3546}$$

$$P = \$2653.00$$

$$\begin{aligned}
 11. \quad I &= Prt && \leftarrow 3,583 \\
 I &= (54,459)(0.074)\left(4\frac{3}{12}\right) \\
 I &= \$14,440.71
 \end{aligned}$$

$$\begin{aligned}
 12. \quad I &= Prt \\
 24,509.30 &= (126,174)(0.0666)(t) \\
 \underline{24,509.30} &= \underline{8403.1884} t \\
 8403.1884 & \quad 8403.1884
 \end{aligned}$$

$$t = 2.91\bar{6} \text{ years.}$$

or

$$t = 35 \text{ months}$$