

Pre-Calc AB Worksheet 35 : Answers

1. $365 \times 24 \times 60 = 525600$
2. I will have \$1,009.98.
3. With a CD at two banks she'll withdraw \$2,354.38.
With a CD only at the first bank she'll withdraw \$2,323.23.
4. I should save \$2,582.61.
5. Michael will be 30.8 years old.
6. Their interest rate is 8.28%.

Plan	P
Annually	\$821.92710676
Semiannually	\$820.34829988
Quarterly	\$819.54447034
Monthly	\$819.00310366
Weekly	\$818.79370251
Daily	\$818.73972486
Hourly	\$818.73112693
Every Minute	\$818.73075931
Every second	\$818.73075318
Continuously	\$818.73075308

7.

8. (a) $k = \frac{1}{2} \ln \frac{52}{35} \approx 0.1979$

(b) There are about 9,417 bacteria after 5 hours.

(c) After about 5.303 hours the population will reach 10,000.

9. (a) $k = \frac{1}{8} \ln \frac{1}{2} \approx -0.0866$

(b) About 2.973 grams will remain after 6 days.

(c) It will take about 18.57 days until 1 gram is left.