Math C

10.3 Modeling Exp. part 2

1. Suppose a $100,000 piece of equipment is depreciating at 10% a year.

   a) How much is it worth after 3 years?

   b) How much is it worth after 10 years?

   c) How long will it take to be worth less than $20,000?

2. Suppose a Cadillac depreciates at 18% a year.

   a) How long does it take for the car to be worth only half of its original price?

   b) How much of its original price is it worth after 5 years?

3. The population of a particular bacteria triples every hour. Initially there are 100 bacteria. How many bacteria will there be 6 hours later?

4. The population of the United States tripled between the years 1790 and 1830. The population in 1790 was 4 million. If the population continued to grow at that rate, what would the population have been in 1950?

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Answer List

1. $72,900, $34,868; 16 yrs
2. ≈3.5 yrs, 37.07%
3. 72900
4. 324 million

Catalog List

1. TRI KI 46
2. TRI KI 48
3. TRI KI 52
4. TRI KI 54