<u>DIRECTIONS</u>: Solve. Give monetary answers in dollars and cents (\$###.##). All other answers should be rounded to two decimal places.

1. The value of a new \$24,500 automobile decreases 20% per year. Find its value after...

a. 1 year **b.** 2 years **c.** 5 years

d. 10 years

\$19,600.00 \$15,680.00 \$8028.16 \$2630.67

2. The value of a new \$7,500 sailboat decreases 10% per year. Find its value after...

a. 1 year **b.** 5 years **c.** 10 years \$6750.00 \$4428.68 \$2615.09

13.19%

of appreciation.

d. 20 years

\$6750.00 \$4428.68 \$2615.09 \$911.82 **3.** A gold coin appreciated in value from \$100 to \$238 in seven years. Find the annual rate

4. Eight years ago, Miguel paid \$250 for a rare stamp. Its current value is \$1000. Find the annual rate of appreciation. **18.92%**

5. A tractor cost \$52,000 five years ago. Now it is worth \$39,000. Find the annual rate of depreciation. **5.60%**

6. A new car that cost \$22,000 decreased in value to \$10,000 in 6 years. Find the annual rate of depreciation. **12.31**%

7. The value of a new \$3,000 television decreases 25% per year. How long (in years) will it take for the value of the television to be \$500?

6.23 years

8. The population of Super City increases 5% per year. The current population is 47,000 people. How long (in years) will it take for the population to reach 70,000? **8.16** years