

Name _____ Period _____

Section 11-2 Homework

1. The average cost of an automobile in the U.S. in 1993 was \$21,868. Since then, average increases have occurred at a rate of \$1790 yearly. Write the general term for the arithmetic sequence modeling automobile costs, where $n = 1$ corresponds to 1993.

[A] $t_n = 21,868 + 1790n$

[B] $t_n = 1790 + 21,868n$

[C] $t_n = 20,078 + 1790n$

[D] $t_n = 21,868 - 20,078n$

[1] _____

2. Use the given formula to find the first five terms of the arithmetic sequence.

$$t_n = 49 - 3n$$

[2] _____

3. Find the three arithmetic means between -7 and 13 .

[A] 5, 10, 15

[B] $-2, 3, 8$

[C] 1, 5, 9

[D] $-2, -9, -16$

[3] _____

4. Find the four arithmetic means between 9 and 189.

[A] 48, 83, 118, 153

[B] 45, 54, 63, 72

[C] 45, 81, 117, 153

[D] 36, 72, 108, 144

[4] _____

5. Find the five arithmetic means between 3 and -39 .

[5] _____

6. Find the six arithmetic means between 3 and -46 .

[6] _____