Act. #44 "Arithmetic Sequences"
AFM

1) Find the 138th term for the following Arithmetic Sequence
$-5, \_\_\_, \_\_\_, \_\_\_, \_\_\_, \_\_\_, -23.$

2) What is the <u>common difference</u> for the following Arithmetic Sequence? $\frac{1}{4}, \_\_\_, \_\_\_, \_\_\_, \frac{21}{20}.$

3) Find the <u>first 3 terms</u> of the Arithmetic Sequence with $a_1 = 4$, $a_n = 31$, and $n = 10$.

4) If the 44th term of an Arithmetic sequence is .36 and the common difference is .159. What is the first term of the sequence?

5) Find the 83RD term of the following Arithmetic Sequence.
$.43, \frac{87}{5}, 34.37, \frac{2567}{50}, \ldots\ldots.$

6) What is a_7 and a_{11} for the following Arithmetic Sequence?
$\_\_\_, -3, \_\_\_, \_\_\_, \_\_\_, 21, \_\_\_, \_\_\_.$

7) If the 21st term of an Arithmetic sequence is 562 and the common difference is .25. What is the <u>first term</u> of the sequence?

8) Find the <u>first 4 terms</u> of an Arithmetic sequence with $a_1 = \frac{2}{5}$, $a_n = 80$, and $n = 20$. (Fraction answers)

9) What is the a_1 and a_{24} for the following Arithmetic Sequence?
$\_\_\_, \_\_\_, -2, \_\_\_, \_\_\_, \_\_\_, \_\_\_, 28, \_\_\_, \_\_\_$