## Algebra II

11-1 Types of Sequences Sequence - A list of numbers, usually in a pattern Arithmetic Sequence - A sequence whose terms vary by a common difference. (The same number is added or subtracted to get the next number.) Find the common difference and find the missing terms for the Arithmetic Sequence - d=4 \*1) 3, 7, 11, 15, <u>19</u>, <u>23</u> ¥4 ¥ ¥ ¥ ¥

<u>Geometric Sequence</u> - A sequence whose terms vary by a common ratio. (multiply or divide.)

Find the common ratio and find the missing terms for the Geometric Sequence -

Tell whether each sequence is aritmetic, geometric, or neither. Then supply the missing terms of the sequence.

1) 20, 17, 14, 11, 8, 5 Arithmetic  
-3 -3 dz-3  
7) 
$$\frac{1}{1}, \frac{1}{4}, \frac{1}{9}, \frac{1}{16}, \frac{1}{25}, \frac{\frac{1}{36}}{\frac{1}{5}}, \frac{\frac{1}{179}}{\frac{1}{7}}$$
 Neitler  
 $\frac{1}{1^{2}}, \frac{1}{2^{2}}, \frac{1}{3^{2}}, \frac{1}{4^{2}}, \frac{1}{5}, \frac{1}{6^{2}}, \frac{1}{7^{2}}$ 



Find the next two terms of the sequence using the pattern between the terms.
23) 60, 48, 38, 30, 24, <u>20</u> , <u>18</u> 12 -10 -8 -6 -4 -2

Assignment:	
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1-31 all.	