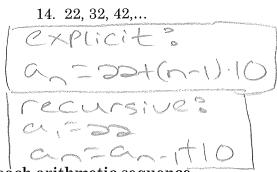
Algebra 2 ~ Arithmetic Sequences Day 2 HW (3) Na	ame: Key 2015-16 Hr_
1. What is a common difference?	
A number that is ad	ded or subtracted
to find new terms in	an arithmetic sequence.
2. What the explicit formula to find the nth term of an arithmetic sequence?	
a, t(n-1).d	
For #3 & 4, name the first five terms of the arithmetic sequence described.	
3. $a_1 = 4$, $d = 3$ 4. $a_1 = 7$, $d = 5$	same handh circum <u>ann an ann an an an an an an an an an an</u>
7,10,13,16 7,12,17	ay as
For #5 & 6, name the next four terms of each arithmetic sequence.	
5. 5, 9, 13, 6. 21, 15, 9,	O = 6
17,21,25,29 	9,-15
For #7-8, find the indicated term in each arithmetic sequence:	
=10+(21-1)·-3 0,0=8	+(10-1)5
	Sometimen and the control of the con
For #9-12, find the missing terms in each arithmetic sequence:	
9. 55, <u>70,85,(00,</u> 115	, -6 <u>, (, 8 , 15, 2)</u>
115-55 U	5-6
Y	
11. $-8, \frac{13}{2}, \frac{2}{3}, 3$ 12. 16, $\frac{1}{2}$	2,8,4,0
prome 3 - E	Or G
3	4
	11

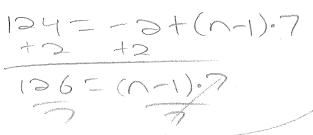
For #13-14, write an explicit & recursive formula for the n^{th} term of each arithmetic sequence.

13. 2, -1, -4, -7,
explicit:
an=3+(n-1)31
Recursive:
0,72
(an=an-1=5)



For #15-17, complete the statement for each arithmetic sequence.

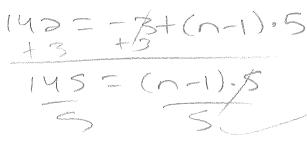
15. 124 is the ? term of -2, 5, 12,...





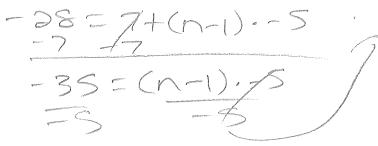
Ause ansation.

16. 142 is the ? term of -3, 2, 7, ...





17. -28 is the ? term of 7, 2, -3, ...





For #18 & 19 find the first term (a_1) for the following arithmetic sequences.

$$18. \ a_{12} = 27, d = -5$$

$$19. \ a_{31} = -11, d = 2$$

$$a_{31} = a_{1} + (a_{1} - 1) \cdot c$$

$$a_{11} = a_{1} + (a_{1} - 1) \cdot c$$

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