BECA/Huson / Algebra Z Lesson \$1.5 Homework SOLUTIONS 1. A. 6, 12, 18, 24 (3). dr. f= dh-1)-6 B. 2,14,98,686 (1) and = 7.a(n-1) C. 160, 80, 40,20 (2) 66) = \(\frac{1}{2}\)b(n-1) 7, 4, 1, -2, -5 2. 2, 3, 5, 9, 17 3. 3, 30, 300, 3000 3000 4, 1, 2, 6, 24, 120 ( 3, 1. f(n) = 2+2 (n-1) 5 few = 8 5+ 2(n-1) & + 2000 3. f(n) = 50 - 25(n-i)4.  $f(n) = \frac{1}{3}(\frac{1}{3})^{n-i}$ 4. 1. f(x) = 27-7 f(3) = -1f(e) = -3 f(1) = -5 f(0) = -7 f(-1) = -9 2. g(x)= 5x \$ g(3) = 125 9(2) = 25 9(1) = 5 g(0) = 1 9(-1) = 15

First Harming Lesson to (Cont) 5. 1. h. A(a) B(a) 10 - - 1 1/2 2 5 2 3 8 40- 50 12 - 1 4 11 851 6 50 3 5 14 00 3 16 0 - 08 . 2 3 2 2 2 6 17 32 2. add three 3. multiply by two 4. Sequence B, because of the multiplication "x2) 5- 7: = (6) - .. 1:37 = -₹ - = (a) - <u>L</u> 8 2 5(2) P . S (1) = (8) p }

Back / Huson / Algebra 2 Lesson 4.6 Homework Solvens 1. a (2) = 2 a(h) = a(n-1)+311 50 03 - 1 - 1 - 100 6 17 a(6) = 17 1 (5,81)g(x) = g(x-1) = 3(3,9) 3. multiply 1 by 3 29 times 3+ (6,1)

1 (1,1)

1 2 3 4 5 3. A. 3,5,75 3. e(n) = 5. c(n-1) B. 18,6,2, 3/3 1.a(n) = \frac{1}{3} (a(n-1)) C, 1,2,4,7 4. d(n) = dn-1)+ h-1 D. 17,13,9,5 2. 6(n)= 6(n-1)-4

SOLUTIONS (Cont) U. 1. 1, 3, 9,27, 81 2. 1, -1, -3, -5, -7 3. 1, 3, 7, 15, 31 4, 1, 2, 5, 26, 677 5. 1, 3, 7, 13, 21 1, 120, 60, 0, -60 f(i) = 120 f(n) = f(n-1) - 60  $\sqrt{2}$ 2. f(1) = 120 f(n) = f(n-1) \* z n = 2G. 1. hours sP(a) r= 2 /000,000 2 500,000 0 1000 0 yes. 250,000 part Multiplication 5 62,500 growth fater Try 2 Section Section Section 2

Same to the same of the same of

BECH HUSON / Algebra 2 Lesson 1.7 Homework Solutions 1. f(1)=10, f(n)=f(n-1)-1.5 fresz K(n) = K(n-1)-6 N>2 3, 11,7 a(N) = a(n-1)-4 4. 9: 80,40 1. g(1) = 80  $g(\lambda) = g(n-1) \neq \frac{1}{2}$ 3. multiply 80 by 2 99 times

Sources (cont) 5. A. 2 1,2,4,0. 3. 1, 3, 7, 15,31 B. 2. 1,2,4,81, 100 C. 80, 40, 20. G. ". geometic 2. arithmetic
3. Neither 4,9,16 geometric: 4, 8, 16 U. 50,69,70

an. Hamete

5 = 2 2 5. \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\fra 

S was be would be a !