Mathematics Tasks 12/08/2023

Arithmetic 16 EOMEtric Progressions 12,08 N= 2,10 2. Der lak Kanugol noully touses uceo unelli oguna 10 ly 10 passu. zy a me gregy agu el, pronce 10 u 12 rgc porpulação 2. 10. 18/9 = 3 06 201 + 40 02=01+0 05-02= 01+401-01-d=3d 18 -9 = 30 0=9/3 d=3

$$N = 5$$
, 11
 $a_1 = 15$; $a_1 + 04$, $a_2 = 102$
 $a_2 = a_1 + d$
 $a_3 = a_1 + 2d$
 $x = a_1 + a_1 + d + a_1 + 20$
 $x = 3a_1 + 30$
 $x = 3a_1 + 3a_1 = 102$
 $x = 3a_1 +$

Q10 = a5 +5.0 5+501= 15 50 = 15 - 5 d+ = 2 a5= 21 +4d ax 5 = a, +8 -a, = 88-5 -an = 3, a1 = -3 3. 07=5, 03>20, 9-? 013 = 01 -29 & 5.2 = 10 (02) 123 = 5.294 10.2 - 20 100) 5.20 = 20 29 = 2015 22 = 4 Q = 2 0: 2

$$N^{9}_{2}$$
 3, 12
3. $d_{1} = 2$; $q = -2$
 $b_{10} = b_{1} \cdot q^{9} = 2 \cdot 2^{9} = 2 \cdot 5/2 = 1024$
 $b_{10} = b_{1} \cdot q^{9} = 2 \cdot 2^{9} = 2 \cdot 5/2 = 1024$
 $c_{10} = \frac{1}{12} \cdot \frac{1}{12} \cdot$

12 Su = 2 1-9" 40-1.(1-9") 4011-91=1-94 40-40/9=1-94 24-409+38=0 24-9-394139=2193-1)-3818-11= = 9,19-1/192+9+1/-3919-1)-= 19-11193+92+9-39/ Q3+ Q+9 -39=0 93-27 +82-9+9-3=0 $3^3 = 27 \quad 3^2 = 3 \quad 3^1 = 3$ 1 93-31 (Q2 +39 + 4/ +19-3/19+3/+ 1118-31=0

2³-27+2²-9+2-3=0 (2-3)(2+39+9)+(2-3)+ +119-31=0 (9-3119² + 39 + 379+ 3+ 11=0 9 + 49 + 7 = 19 +21 132, re ander plan 7. an = 6. (3) 5= 0-61 a 1 = 6° \frac{1}{3}; 9 = \frac{1}{3} S= 6. \frac{1}{3}, \frac{1}{1-3} = \frac{6}{3}, \frac{1}{n-2} = 73-3(1) = 6 = 3

X1 X2 -> x2-3y+a=0 X1+X2 = -3 = 3 ×1+ ×2 = 1 3+3-3333 3 · 3 = 3 = 1/10 Kopun ypa Promus ue rogsloge T kar D71-312-4.91 = 9-4=5 X1,2 = [3 ± 55] 42. 5. Soo = 1-9 1+2x+3x2+4x3+5x4-~~ 1×1<1 5= 1+2×+3×+4×3-15×4 = 14+1/1+× 1×2

5=1+2x+3x3+4x3+, 2 2(1+X+x2+x3+x4=1+x+ +3x2+4x3+ ... = (1+x+x2+x3+; 1+ = (1+ x+ x + x3)+ (x+x3+x1)+ 2 x2 +2x3 + 3x 4 - = -1 - 1 14 x +x2+x3 , -. 1+ X (-1+ X+ X 2 + X 3+ , -,) + X 2 14+ + X+ X + X 1 = = 111+x+x2+x3+.../ S=1: = (-1) = (-1) = (-1) 2 (7.7) 2 (3) = 36