BOARD NOTES

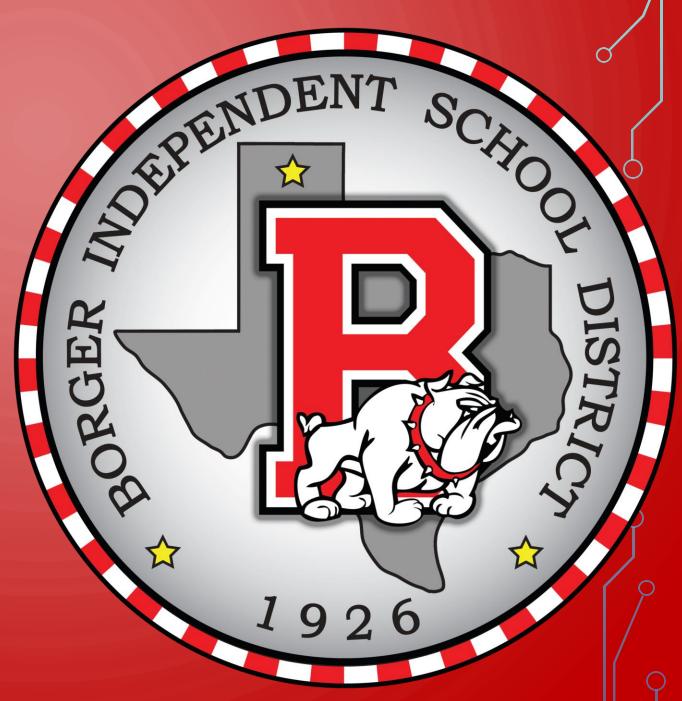
9 MARCH 2020

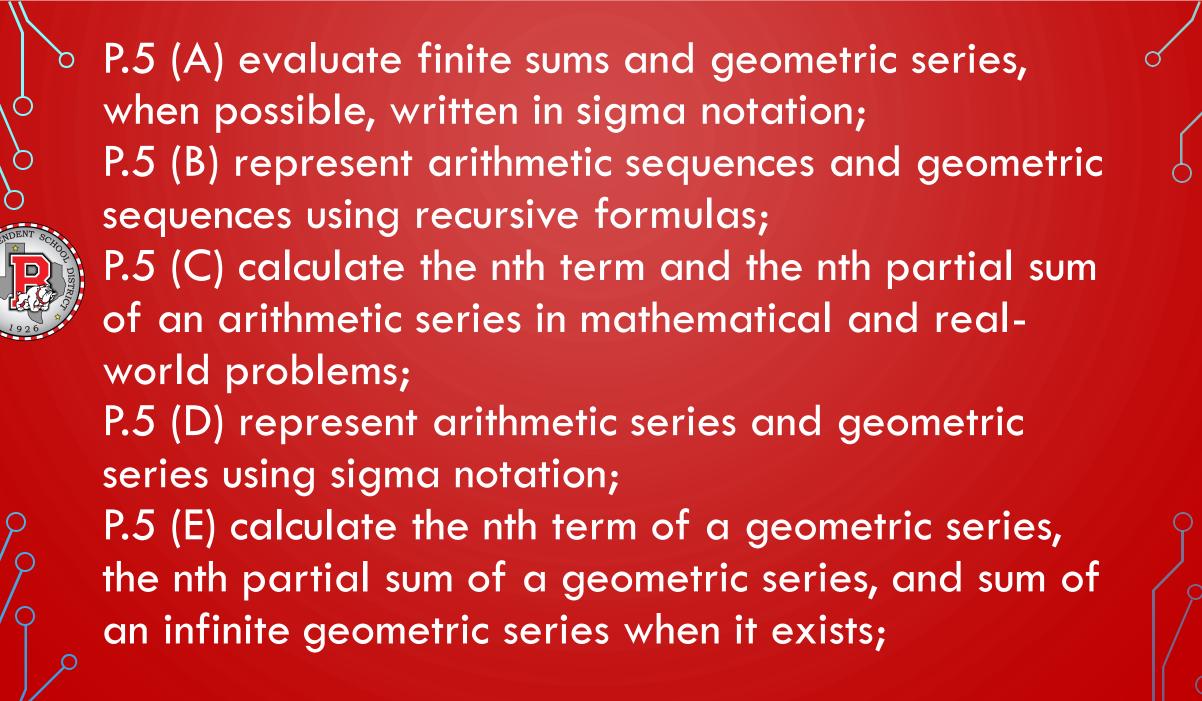
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We will be able to determine if a sequence is arithmetic, geometric, or neither.

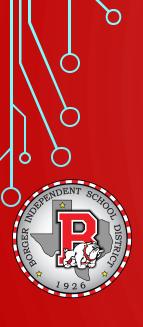


WHAT WE NEED:

• TI-84

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

• Equation



Arithmetic: $d = a_2 - a_1$ $d = a_3 - a_2$

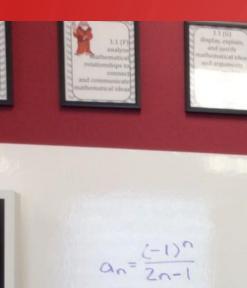
Geometric: $r = \frac{a_2}{a_1}$ $r = \frac{a_3}{a_2}$



n= 1, 2, 3, ··· $a_n = 2(n-7)$ $a_1 = 2(1-7) = -12$ $a_2 = 2(2-7) = -10$ a3= 2 (3-7)= -8 -6 ay =







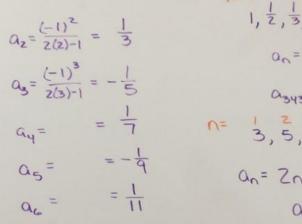
 $a_1 = \frac{(-1)^1}{2 \cdot 1 - 1}$



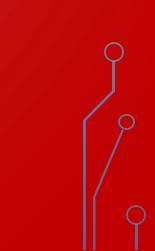
ay=

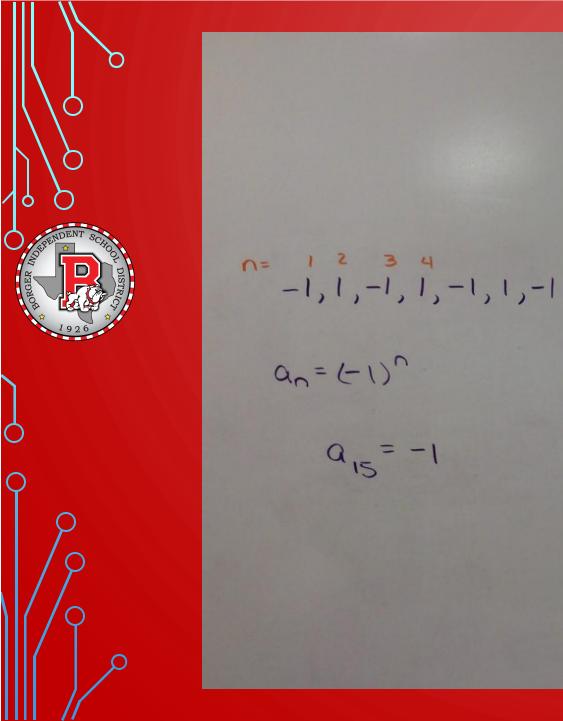
a5=

a. =



 $\begin{array}{c} n=1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 1, & 1, & 1, & 1, & 1, & 1, & 1, & 1 \\ 1, & 2, & 3, & 4, & 5, & 6, & 7, & 8 & \dots \end{array}$ $a_n = \frac{1}{n}$ a343 = 343 n= 1 2 3 4 3, 5, 7, 9, 11, 13, 15 ... $a_n = Z_n + 1$ Q12 = 25





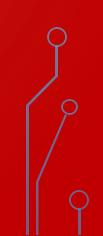
 $\bigcap_{i=1}^{2} 2 3 4 \\ i, -i, i, -i, i, -i, i$ $a_{n} = (-1)^{n+1}$

a, 4



-1,1

a, az az 50, 45, 40, 35, 30, 25, 20 4, 7, 10, 13, 16, 19, 22 d=-5 d=3 $a_2 - a_1$ a3-a2 a17-916





 $80, -40, 20, -10, 5, -\frac{5}{2}$ $\Gamma = -\frac{1}{2}$

2, 6, 18, 54, 162, 486 18 - 6 = 12 $\Gamma = 3$ 6 - 2 = 4

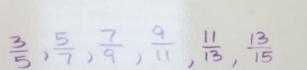
 $\frac{a_3}{a_2} = \Gamma$ $\frac{a_2}{a_1} = r$





1.1 (G) slipplay, explain, and justify mathematical ideas and arguiteers mathematical language in written or zero communication





7 - 57 = 4 57 - 35 = 4 35 Not Arithmetic 57 - 35 = 435

7/9/15 55/21 = 25/21) NOT GEOMETRIC

12,1,2,2,2,3 log22, log34, log46, log58, log60, log712 $1 - \frac{1}{2} = \frac{1}{2}$ $d = \frac{1}{2}$ A $\frac{3}{2} - 1 = \frac{1}{2}$ $d = \frac{1}{2}$ A

.2, .02, .002, .0002, .00002, .00002 .02-.2=-.18 $\log_{3} 4 - \log_{2} 2 = .26$.002-.02=-.018 $\log_{4} 4 = .03$ $\frac{.02}{.2} = \frac{1}{10}$ $\Gamma = \frac{1}{10}$ $\frac{.002}{.02} = \frac{1}{10}$ G