Seguences

aprilmedic - constant differment dis the slope, geometric - constant ratio of 15 the bose of exp.

arithmetic >  $a_n = a_1 + d(n-1)$   $a_n = a_0 + dn$   $a_1 = 2n$   $a_2 = 2$   $a_1 = 2 + 2(n-1)$   $a_2 = 0$ Describing some exact sequence.  $ex | a_2 = 5 | and a_n is a iffentice.$ 

ex  $a_2 = 5$  and  $a_n$  is an immedia  $a_5 = 26$   $a_5 = 26$   $a_5 = 26$   $a_6 = 7$   $a_7 = 6$   $a_7$ 

Geometric Segues n is like input X ex looking for  $r_3 = \frac{1}{3}$  $y = \frac{1}{3}$   $y = \frac{1}{3}$   $y = \frac{1}{3}$   $y = \frac{1}{3}$  $9 = b_1 (\frac{1}{3})$   $27 = b_1$ 20

ex 
$$q_3=5.7$$
 and an is arithmetic.  $a_6=9$  and  $a_2$ 

$$d = \frac{\alpha_{0} - \alpha_{3}}{(6 - 3)} = \frac{3.3}{3} = 1.1 \qquad \alpha_{2} = 4.6$$

$$\alpha_{n} = 3.5 + 1.1(n-1)$$

$$\alpha_{2} = 3.5 + (1.1)(19)$$

$$= 3.5 + 20.9 = 24.4$$

$$\frac{ex}{\alpha_2 = 6}$$

$$\alpha_7 = 54$$

an is geometric

find an

and azo

ratio

$$\eta_1 = 2$$

$$\begin{cases}
 2 = 54 = 9 \\
 6 = 3 \\
 N = 3 \\
 N = 3 \\
 N = 2 \\
 M_{20} = 2 \\
 M_{20} = 2
 \end{cases}$$