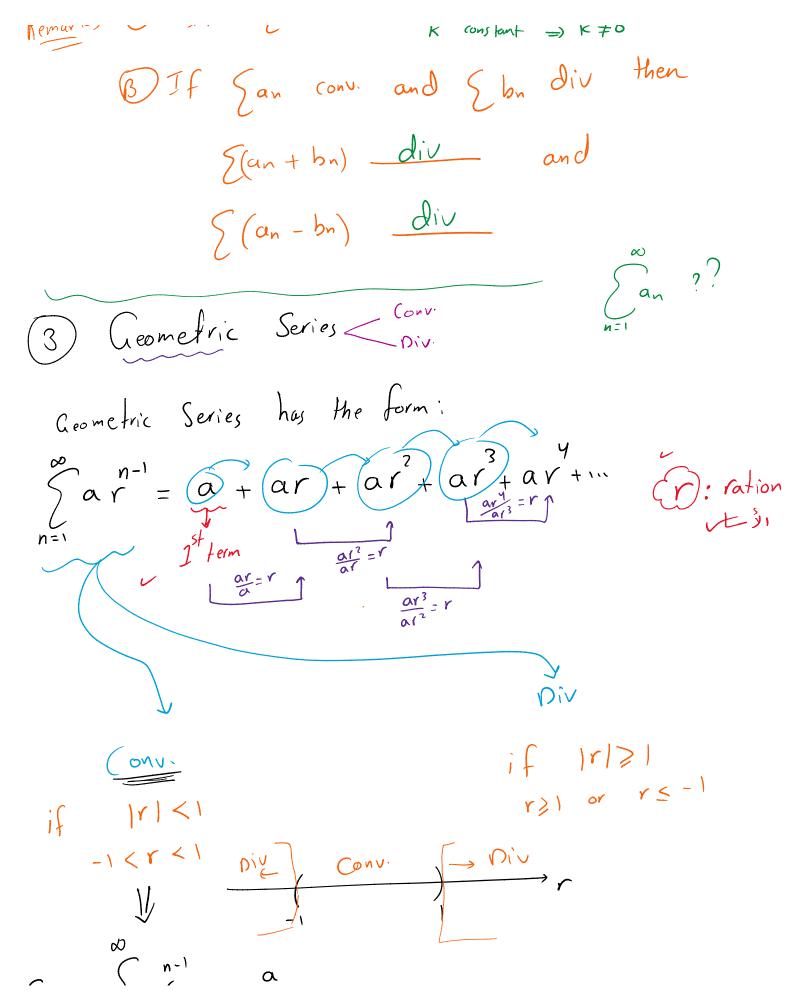
Ean conv./Div?? D'nth partial Sum Test (conv/Div): sind sn => limsn CONV San=L & L DNE

San (2) nh term test if lim on to then Son div if lim an DNE The Assume $\mathcal{E}_{an} = A$ and $\mathcal{E}_{bn} = B$. Then $\mathcal{E}_{an+bn} = A + B$ The Sum of two convergent infinite series is committee subtraction =) Any constant multiple of convergent series is convergent. $\Im \qquad \bigvee_{K \in A} = K A$ Remarks @ If Ean div then K constant => K to

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$$Sum = \int_{n=1}^{\infty} ar^{-1} = \frac{a}{1-r}$$

$$\int_{n=1}^{\infty} Find \quad Sum \quad of$$

$$\int_{n=1}^{\infty} \frac{1}{1-r} = \frac{1}{1$$

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$$r = \frac{\binom{1}{3}}{\frac{1}{3}} = \frac{\binom{1}{3}}{\binom{1}{3}^{2}} = \cdots = \frac{1}{3} > 1 \quad \text{div}$$

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2) Find its sum

2 Find its sum $= (x+1) + (x+1)^{2} - (x+1)^{3} + (x+1)^{2} - \cdots$ $Y = \frac{-(x+1)}{1} = \frac{(x+1)^2}{-(x+1)} = \frac{(x+1)^2}{(x+1)^2} = \frac{-(x+1)^2}{(x+1)^2}$ This series is geometric since r is constant -1 < r < 1 =) |r/ < 1 | - (x+1) | < | $\sum_{(-1)}^{(-1)} \left(\times + 1 \right)^{n} = \frac{1}{2 + x}$ $\frac{1}{2+\frac{1}{2}} = \frac{1}{2-\frac{1}{2}} = \frac{\frac{2}{3}}{\frac{3}{2}} = \frac{\frac{2}{3}}{\frac{3}{2}}$ Express the following repeated decimals as ratio of two integers:

$$0.7 = 0.7777777 --- = \frac{6}{6}$$

$$= 0.7 + 0.07 + 0.007 + \cdots$$

$$V = \frac{7}{100} + \frac{7}{1000} + \frac{7}{1000}$$

$$V = \frac{7}{100} = \frac{7}{1000} = \frac{7}{1000}$$

Geometric series => r= to E(-1,1) => series conv. te

$$= \frac{7}{1-r} = \frac{7}{1-\frac{1}{10}} = \frac{7}{\frac{7}{9}} = \frac{7}{9}$$

$$0.\overline{23} = 0.232323 ---$$

$$= \frac{23}{100} + \frac{23}{(100)^{2}} + \frac{23}{(100)^{3}}$$

$$= \frac{23}{100} = \frac{23}{100} = \frac{23}{100}$$

$$= \frac{23}{100} = \frac{23}{100} = \frac{23}{100}$$

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$$= \frac{10}{9} \frac{2}{9}$$

$$= \frac{1}{10} \frac{5}{9}$$

$$= \frac{1}{$$