I) that are the terms a, a, az, and az of the sequence {an} where an equals: a) $(-2)^n: |-2^n=1, e-2=-2, -2^n=4, -2^n=-8$ b) 3: $|a_0=3, a_1=3, a_2=3, a_3=3$ c) 7+4": [7+4°=8, 7+4=011, 7+4=23, 7+43=71) d) $2^{n}+(-2)^{n}$: $2^{2}+(-2)^{2}=2$, $2^{1}+(-2)^{2}=8$, $2^{3}+(-2)^{2}=8$ 29) What are the values of these sums? a) £ (x+1) 24 AM = \(\sum_{k=1}^{2} \times + \sum_{k=1}^{5} \tau = 15 + 5 = 20 \) b) $\sum_{j=0}^{4} (-z)^{j} = (-2^{\circ}) + -2^{1} + -2^{2} + -2^{3} + -2^{4}$ (2) $\sum_{i=1}^{10} 3 = 30$ (10.3)(2) $\sum_{i=0}^{8} (z^{i+1} - z^{i}) = \sum_{i=0}^{8} z^{i} = \frac{z^{8+1} - z^{0}}{z - 1} = \frac{511}{511}$ 31) what is the val of each of these sums of terms of a geo progression? a) $\sum_{j=0}^{8} 3 \cdot 2^{j} = 3 \sum_{j=0}^{2} \frac{2^{8+1}}{2^{2}-1} = \frac{1533}{1533}$ $\frac{1}{5}\sum_{i=1}^{8} z^{i} = \sum_{j=1}^{8} \frac{1}{2^{j}} - \sum_{i=0}^{8} \frac{1}{2^{j}} = \frac{2^{8+1}-2^{\circ}}{2-1} = \frac{2^{1}-2^{\circ}}{2-1} = \frac{511-1}{2-1} = \frac{510}{10}$ c) $S(-3)^{i} = \frac{-3^{8+1}}{3^{-1}} - \frac{3^{2}}{3^{-1}} - \frac{3^{2}}{3^{-1}} = \frac{-4923}{3}$ $d) = \frac{3^{8+1}}{3^{5-0}} = 2 = \frac{3^{8+1}}{3^{5-0}} = \frac{3^{8+1}}{3^{5-0}} = \frac{4921 \times 7}{3^{5-0}} = \frac{9847}{3^{5-0}}$ b) $\sum_{i=0}^{8} (3^{i}-2^{i}) = \sum_{j=0}^{8} 3^{j} - \sum_{j=0}^{8} 2^{j} = \frac{3^{8+j}-1}{3-1} = \frac{2^{8+j}-1}{3-1} = \frac{2^{8+j}-1}{2-1} = \frac{2^{8+j}-1}{$ 32) Find the val of each of these sums $C) \sum_{j=0}^{8} (z \cdot 3^{j} + 3 \cdot 2^{j}) = 2 \sum_{j=0}^{8} 3^{j} + 3 \sum_{j=0}^{8} 2^{j} 2^{j}$