









*2 v2 2,4,8,16,... Next 3 terms. 32, 64, 128 Arithmetic or Geometric? Common Difference Ratio: V = 2 f = 29,=2 $R: qn = qn - 1 \cdot 2$ E: 9n=7.7" $q_{s} = 2.7^{s-1}$ = 2.24

3,9,27,... Next 3 terms: 81, 743, 729 Arithmetic or Geometrie? $R: Q_{n} = Q_{n-1} \cdot 3 + \frac{1}{2} = 3$ $F: Q_{n} = 3 \cdot 3^{n-1}$



You've saved up over \$100 to buy you new iPhone. You borrow \$470 from your parents to pay the rest. If you pay them back \$20 a week, starting with the 2nd week, how many weeks will it be until you owe them \$350? 430 $q_{n} = -20(n-1) + 470$ 350 = -20(n-1) + 470weeks ~20n +2() + 470 20 n + 490

