# JEE Main 31 January 2024 Shift 2 Answer Key Mathematics 

Q.1: If the 2nd, 8th, and 44th term of A.P. is 1st, 2nd, and 3rd terms respectively of G.P. and the first term of A.P. is 1 , then what will be the sum of the first 20 terms of A.P.?
A.1: 970
Q.2: A coin is biased such that the head has two chances and the tails. What's the probability of getting 2 heads and 1 tail?
A.2: 4/9
Q.3: The number of ways to distribute the 21 identical apples to three children so that each child gets at least 2 apples is?
A.3: 136
Q.4: If $\mathrm{a}=\sin ^{-1}(\sin 5), \mathrm{b}=\cos ^{-1}(\cos 5)$ then $\mathrm{a}^{2}+\mathrm{b}^{2}$ is equal to?
A. $4: 8 \pi^{2}-40 \pi+50$

