KFUPM, Math 002 Recitation 9.3, Term 132, Answered by Sayed Omar, Page 1/1 02-May-14 King Fahd University of Petroleum and Minerals **Prep-Year Math Program** Math 002 - Term 132 **Recitation (9.3) Question 1:** The sum of solutions of the equation $\begin{vmatrix} 1 & 1 & 2 \\ 0 & x & 1 \\ 3 & 2 & x - 1 \end{vmatrix} = -17$ Is equal to: C) 7 D) -12 E) -6 A) -7 B) 12 Answer: The sum is equal to 7 Question 2: If $A = \begin{vmatrix} 5 & 1 & 1 & 5 \\ -2 & 0 & 2 & -5 \\ 3 & 3 & 6 & -9 \\ 1 & 1 & 0 & -6 \end{vmatrix}$, then find 1. The minor 0 and the cofactor C_{43} |A|2. **Answer:** (1): minor of $0 = M_{22} = 153$ $C_{43} = 6$ (2): |A| = 18**Question 3:** If A is 3×3 such that |A| = -2, find $2\left|\frac{1}{2}A\right|$.

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Question 4: The sum of the minor M_{13} and he cofactor C_{32} of the matrix $\begin{bmatrix} 4 & -3 & 3 \\ 2 & 1 & -4 \\ 6 & -2 & -1 \end{bmatrix}$ is A) -32 B) 34 C) 24 D) 12 E) -10 Answer: $M_{13} + C_{32} = -10 + 22 = 12$