$$\begin{array}{c}
\text{Linear clyster had 0.5} \\
\text{O} & \text{N} = y - 2z = 10 \\
3x + 3y - 3z = 1 \\
5x + 4y + 3z = 4
\end{array}$$

$$\begin{array}{c}
\text{A} = \begin{cases}
2 & 1 - 2 & 140 \\
3 & 2 - 2 & 17 \\
5 & 4 & 3 & 4
\end{cases}$$

$$\begin{array}{c}
\text{A} = \begin{cases}
2 & 1 - 2 & 140 \\
3 & 2 - 2 & 17 \\
5 & 4 & 3 & 4
\end{cases}$$

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3 & 2 - 2 & 17 \\
5 & 4 & 3 & 4
\end{cases}$$

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\text{A} = \begin{cases}
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3 & 2 - 2 & 17 \\
5 & 4 & 3 & 4
\end{cases}$$

$$\begin{array}{c}
\text{A} = \begin{cases}
1 & 1 & 2 & 140 \\
3 & 2 - 2 & 17 \\
5 & 4 & 3 & 4
\end{cases}$$

$$\begin{array}{c}
\text{A} = \begin{cases}
1 & 1 & 2 & 140 \\
4 & 4 & 2 & 1
\end{cases}$$

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$$\begin{array}{c}
\text{A} = \begin{cases}
1 & 1 & 140
\end{cases}$$

(3) Let AB be square mytrixes of order 1. Prove : Adj (AB) = AA; (B) AA; (A) A. adj (A) = det (A). I :. AB . ad; (AB) = det (AB) . I = det(B) . I = det(B) . det(B) . I = det (B) . A. ad; (A) but det(B). A. adj(A) = A. det(B). adj(A) = A. (Act(B). I). adj(A) = AB. adj(B) adj(A) :- AB. ad; (AB) = AB. ad; (B). ad; (A) Since A and B are of order n, they are invertible, and AB is invertible. therefore multiplying by (AB) - I on both sider gives adj (AB) = adj (B) · adj (A) 3) your that |A|==1 and A-1 = ads (A)/ (A) A-1 = adj(A) or -adj(A) adj(A) is the matrix of cofactors transposed which must have only integer entricy because all determinants myst be integers (if a,b,c,d are integers then ac- bed is an integer) all integers multiplied by -1 are still integer, so A-A must contain only integers