(a)
$$f_1 = 0$$
 $g_1 = 17$
(b) $f_2 = 0$ $g_3 = 17$
(c) $f_4 = 0$ $g_5 = 0$

$$\begin{cases} 20 & j_1 = -1 + 0 + 1 = 0 \\ 20 & j_2 = -(17 - 10) + (11 - 17) + (19 - 17) \\ = -7 - 6 + 2 \end{cases}$$

seard iteration

(0 = 1) (2 = 1) (2 = 1) (3 = 1) (4 = 1) (5 = 1)

since the clements of did not change.
The values & assignments will remain some
the have achieved convergence

1= 21 = 4.2 12 = 19 $Q_{31} = (-1-7)+(0-7)+(1-7)+(0-7)+(11-7)$ = -8-7-6+3+4=14 $Q_{2} = 19-17=2$

Co= 11
(1= 11
(2= 11
(3= 11
(4= 1)
(5= 12

sive the elements, did not change we have achieved convergence

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O No, K-means clustering would not give optimal essolution as the old of the control of clusters, which can be be be a produce crong solution. By penaltying farther objects exponentially by the reverting nearer objects exponentially, we can get whether results. Enjoyenship function the control of the co

 $\int C S_{5} | M_{1} \rangle = A \frac{(2-1)^{2}}{5\pi} = 0.24197072$ $\int (S_{1} | M_{2})^{2} = A \frac{(3-2)^{2}}{5\pi} = 0.39894728$ $\int (S_{2} | M_{2})^{2} = A \frac{(2-2)^{2}}{5\pi} = 0.39894728$ $\int (S_{2} | M_{2})^{2} = A \frac{(2-2)^{2}}{5\pi} = 0.00013383$ $\int (S_{2} | M_{2})^{2} = A \frac{(2-2)^{2}}{5\pi} = 0.0000148671$ $\int (S_{3} | M_{2})^{2} = A \frac{(2-2)^{2}}{5\pi} = 0.39894224$ $\int (S_{3} | M_{2})^{2} = A \frac{(2-2)^{2}}{5\pi} = 0.39894224$

$$82 = \frac{1}{2} \frac{(S_1|M_1)}{(S_2|M_1)} + \frac{1}{2} \frac{(S_2|M_2)}{(S_2|M_2)} = 0.62245933$$

$$8_{31} = \frac{1}{2} \frac{(5_{2} | M_{1})}{(5_{3} | M_{1})} + \frac{1}{2} \frac{(5_{3} | M_{2})}{(5_{3} | M_{1})} = 0.02931223$$

$$\frac{1}{2} \int (531 \text{M}_1) + \frac{1}{2} \int (531 \text{M}_2)$$

$$841 = \frac{1}{2} \int (541 \text{M}_1) \frac{1}{2} \int (541 \text{M}_2)$$

$$= 0.98901 \quad 842 = 1-841 = 0.62245933$$

$$841 = \frac{1}{2} \frac{(Sy | H_1)}{(Sy | H_2)} = 0.5701 \cdot 0.42$$

$$851 = \frac{1}{2} \frac{(Ss | H_1)}{(Ss | H_1)} + \frac{1}{2} \frac{(Ss | H_2)}{(Ss | H_2)} = 0.62245933$$

$$\frac{1}{2} = \frac{1}{2} \times \frac{81}{1} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \times \frac{1$$

$$Hz = \frac{5i \times 8iz}{5i \times 8iz} = 2 - 30692104$$

$$P_1 = \frac{78i1}{n=5} = 0.57944155$$