

Q Develop single link clusters.

CLASSMATE  
Date \_\_\_\_\_  
Page \_\_\_\_\_

Points given are -

$A(2,2)$ ,  $B(5,2)$ ,  $C(7,3)$ ,  $D(8,4)$ ,  $E(10,6)$ ,  
 $F(12,8)$ ,  $G(6,6)$ ,  $H(5,5)$ ,  $I(5,8)$ ,  $J(3,7)$ ,  
 $K(2,6)$

1

	A	B	C	D	E	F	G	H	I	J	K
A	0	3	5.10	6.32	8.94	11.66	5.66	4.24	6.71	5.10	4.00
B	3	0	2.24	3.61	6.40	9.21	4.12	3	6	5.39	5
C	5.10	2.24	0	1.41	4.24	7.07	3.16	2.83	5.39	5.66	5.83
D	6.32	3.61	1.41	0	2.83	5.66	2.83	3.16	5	5.83	6.32
E	8.94	6.40	4.24	2.83	0	2.83	4	5.10	5.39	7.07	8.00
F	11.66	9.21	7.07	5.66	2.83	0	6.32	7.62	7	9.01	10.20
G	5.66	4.12	3.16	2.83	4	6.32	0	1.41	2.24	3.16	4.0
H	4.24	3	2.83	3.16	5.10	7.62	1.41	0	3.0	2.83	3.16
I	6.71	6	5.39	5	5.39	7	2.24	3.0	0	2.24	3.61
J	5.10	5.39	5.66	5.83	7.07	9.01	3.16	2.83	2.24	0	1.41
K	4.00	5	5.83	6.32	8.00	10.20	4.0	2.16	3.61	1.41	0

2

	A	B	C, D	E	F	G	H	I	J	K
A	0	3	5.10	8.94	11.66	5.66	4.24	6.71	5.10	4.0
B	3	0	2.24	6.40	9.21	4.12	3	6	5.39	5
C, D	5.10	2.24	0	2.83	5.66	2.83	2.83	5	5.66	5.83
E	8.94	6.40	2.83	0	2.83	4	5.10	5.39	7.07	8.0
F	11.66	9.21	5.66	2.83	0	6.32	7.62	7	9.01	10.20
G	5.66	4.12	2.83	4	6.32	0	1.41	2.24	3.16	4.0
H	4.21	3	2.83	5.10	7.62	1.41	0	3.0	2.83	3.16
I	6.71	6	5	5.39	7	2.24	3.0	0	2.24	3.61
J	5.10	5.39	5.66	7.07	9.01	3.16	2.83	2.24	0	1.41
K	4.00	5	5.83	8.0	10.20	4.0	3.16	3.61	1.41	0

(3)									
#	A	B	C, D	E	F	G, H	I	J	K
A	0	3	5.10	8.94	11.66	4.24	6.71	5.10	4.00
B	<del>5.10</del> <sup>3</sup>	0	2.24	6.40	9.21	3	6	5.39	5
C, D	5.10	2.24	0	2.83	5.66	2.83	5	5.66	5.83
E	8.94	6.40	2.83	0	2.83	4	5.39	7.07	8.0
F	11.66	9.21	5.66	2.83	0	6.32	7	9.01	10.20
G, H	4.24	3	2.83	4	6.32	0	2.24	2.83	3.16
I	6.71	6	5	5.39	7	2.24	0	2.24	3.61
J	5.10	5.39	5.66	7.07	9.01	2.83	2.24	0	1.41
K	4.0	5	5.83	8.0	10.20	3.16	3.61	1.41	0

4

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

	A	B	C, D	E	F	G, H	I	J, K
A	0	3	5-10	8-94	11-66	4-24	6-71	4-0
B	3	0	2-24	6-40	9-21	3	6	5
C, D	5-10	2-24	0	2-83	5-66	2-83	5	5-66
E	8-94	6-40	2-83	0	2-83	4	5-39	7-07
F	11-66	9-21	5-66	2-83	0	6-32	7	9-01
G, H	4-24	3	2-83	4	6-32	0	2-24	2-83
I	6-71	6	5	5-39	7	2-24	0	2-24
J, K	4-0	5	5-66	7-07	9-01	2-83	2-24	0



(5)

	A	B, C, D	E	F	G, H	I	J, K
A	0	3	8.94	11.66	4.24	6.71	4.0
B, C, D	3	0	2.83	5.66	2.83	5	5
E	8.94	2.83	0	2.83	4	5.39	7.07
F	11.66	5.66	2.83	0	6.32	7	9.01
G, H	4.24	2.83	4	6.32	0	2.24	2.83
I	6.71	5	5.39	7	2.24	0	2.24
J, K	4.0	5	7.07	9.01	2.83	2.24	0

(6)

	A	B, C, D	E	F	G, H, I	J, K
A	0	3	8.94	11.66	4.24	4.0
B, C, D	3	0	2.83	5.66	2.83	5
E	8.94	2.83	0	2.83	4	7.07
F	11.66	5.66	2.83	0	6.32	9.01
G, H, I	4.24	2.83	4	6.32	0	2.24
J, K	4.0	5	7.07	9.01	2.24	0

7

classmate

Date  
Page

	A	B, C, D	E	F	G, H, I, J, K
A	0	3	8.94	11.66	4.0
B, C, D	<del>8.94</del>	0	2.83	5.66	2.83
E	8.94	2.83	0	2.83	4.0
F	11.66	5.66	2.83	0	6.32
G, H, I, J, K	4.0	2.83	4.0	6.32	0

8

	A	B, C, D, E	F	G, H, I, J, K
A	0	3	11.66	4.0
B, C, D, E	3	0	2.83	2.83
F	11.66	2.83	0	6.32
G, H, I, J, K	4.0	2.83	6.32	0

9

	A	B, C, D, E, F	G, H, I, J, K
A	0	3	4
B, C, D, E, F	3	0	2.83
G, H, I, J, K	4	2.83	0

10

	A	B, C, D, E, F, G, H, I, J, K
A	0	3
B, C, D, E, F, G, H, I, J, K	3	0