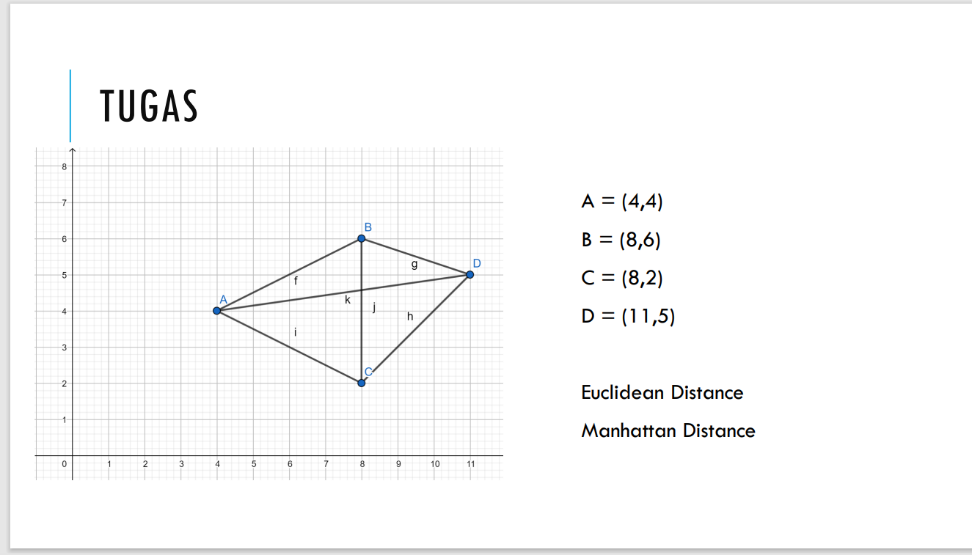
**Tugas 1 - Distance Metric**

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A. Euclidien Distance

Koordinat titik :

* A = (4, 4)
* B = (8, 6)
* C = (8, 2)
* D = (11, 5)

Distance :

1. f (A, B)
2. g (B, D)
3. h (D, C)
4. i (A, C)
5. j (B, C)
6. k(A, D)

Rumus :

d (x , y) = i – yi )2

Jawaban

1. f (A, B)

A = (4, 4)

B = (8, 6)

d =

d =

d =

d =

d = 2

1. g (B, D)

B = (8, 6)

D = (11, 5)

d =

d =

d =

d =

1. h (D, C)

C = (8, 2)

D = (11, 5)

d =

d =

d =

d =

d =

1. i (A, C)

A = (4, 4)

C = (8, 2)

d =

d =

d =

d =

d = 2

1. j (B, C)

B = (8, 6)

C = (8, 2)

d =

d =

d =

d =

1. k (A, D)

A = (4, 4)

D = (11, 5)

d =

d =

d =

d =

d =

B. Manhattan Distance

Koordinat titik :

* A = (4, 4)
* B = (8, 6)
* C = (8, 2)
* D = (11, 5)

Distance :

1. f (A, B)
2. g (B, D)
3. h (D, C)
4. i (A, C)
5. j (B, C)
6. k(A, D)

Rumus :

d|

1. f (A, B)

A = (4, 4)

B = (8, 6)

d = |4 – 8| + |4 – 6|

d = |-4| + |-2|

d = 4 + 2

d = 6

1. g (B, D)

B = (8, 6)

D = (11, 5)

d = |8 – 11| + |6 – 5|

d = |-3| + |-1|

d = 3 + 1

d = 4

1. h (C, D)

C = (8, 2)

D = (11, 5)

d = |8 – 11| + |2 – 5|

d = |-3| + |-3|

d = 3 + 3

d = 6

1. i (A, C)

A = (4, 4)

C = (8, 2)

d = |4 – 8| + |4 – 2|

d = |-4| + |2|

d = 4 + 2

d = 6

1. j (B, C)

B = (8, 6)

C = (8, 2)

d = |8 – 8| + |6 – 2|

d = |4|

d = 4

1. k(A, D)

A = (4, 4)

D = (11, 5)

d = |4 – 11| + |4 – 5|

d = |-7| + |-1|

d = 7 + 1

d = 8