Menghitung Jarak

$M_1 : (1, 4.5)$

- Jarak → c_1

$(c_1, M_1) = \sqrt{(3-1)^2 + (4-4.5)^2} = \sqrt{4 + 0.25} = \sqrt{4.25} = 2.06$

Jarak → c_2

$(c_2, M_1) \sqrt{(6-1)^2 + (4-4.5)^2} = \sqrt{25 + 0.25} = \sqrt{25.25} = 5.03$

Lebih dekat ke c_1

$M_2 : (3, 6.5)$

Jarak → c_1

$(c_1, M_2) : \sqrt{(3-3)^2 + (4-6.5)^2} = \sqrt{0 + 6.25} = \sqrt{6.25} = 2.5$

Jarak → c_2

$(c_2, M_2) = \sqrt{(6-3)^2 + (4-6.5)^2} = \sqrt{9 + 6.25} = \sqrt{15.25} = 3.91$

Lebih dekat ke c_1

$M_3 : (4, 4.5)$

Jarak → c_1

$(c_1, M_3) : \sqrt{(3-4)^2 + (4-4.5)2} = \sqrt{1 + 0.25} = \sqrt{1.25} = 1.12$

Jarak → c_2

$(c_2, M_3) = \sqrt{(6-4)^2 + (4-4.5)^2} : \sqrt{4 + 0.25} : \sqrt{4.25} = 2.06$

M_3 lebih dekat ke c_1

M4 : (7.5, 3.2)

Jarak → C1

$(C_1, M4) = \sqrt{(3-7.5)^2+(4-3.2)^2} = \sqrt{20.25+0.64} = \sqrt{20.89} = 4.57$

Jarak → C2

$(C_2, M4) = \sqrt{(6-7.5)^2+(4-3.2)^2} = \sqrt{2.25+0.64} = \sqrt{2.89} = 1.70$

Lebih dekat ke C2

M5 = (6, 2.3)

Jarak → C1

$(C_1, M5) = \sqrt{(3-6)^2+(4-2.3)^2} = \sqrt{9+2.89} = \sqrt{11.89} = 3.44$

Jarak → C2

$(C_2, M5) = \sqrt{(6-6)^2+(4-2.3)^2} = \sqrt{0+2.89} = \sqrt{2.89} = 1.70$

Lebih dekat ke C2

M6 = (2.5, 3.8)

Jarak → C1

$(C_1, M6) = \sqrt{(3-2.5)^2+(4-3.8)^2} = \sqrt{0.25+0.04} = \sqrt{0.29} = 0.54$

Jarak → C2

$(C_2, M6) = \sqrt{(6-2.5)^2+(4-3.8)^2} = \sqrt{12.25+0.04} = \sqrt{12.29} = 3.5$

Lebih dekat ke C1

M7 = (5, 5.5)

$(C_1, M7) = \sqrt{(3-5)^2+(4-5.5)^2} = \sqrt{4+2.25} = \sqrt{6.25} = 2.5$

$(C_2, M7) = \sqrt{(6-5)^2+(4-5.5)^2} = \sqrt{1+2.25} = \sqrt{3.25} = 1.80$

Lebih dekat ke C2

Klaster 1 (C1) = M1, M2, M3, M6

Klaster 2 (C2) = M4, M5, M7