

$$2) \quad A \begin{matrix} x_1 & y_1 \\ (0, 4) \end{matrix} \quad B \begin{matrix} x_2 & y_2 \\ (4, -5) \end{matrix}$$

$$d(A, B) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d_{AB} = \sqrt{(4 - 0)^2 + (-5 - 4)^2}$$

$$d_{AB} = \sqrt{(4)^2 + (-9)^2}$$

$$d_{AB} = \sqrt{16 + 81}$$

$$d_{AB} = \sqrt{97} = 9.8$$

