

$$d_{AB} = 10$$

- Distance between B and C is

$$\begin{aligned} d_{BC} &= \sqrt{(-1-2)^2 + (3-8)^2} \\ &= \sqrt{(-3)^2 + (-5)^2} \\ &= \sqrt{9 + 25} \\ &= \sqrt{34} \end{aligned}$$

$$d_{BC} = 5.831$$

- Distance between C and J is

$$\begin{aligned} d_{CJ} &= \sqrt{(10-2)^2 + (6-8)^2} \\ &= \sqrt{(8)^2 + (-2)^2} \\ &= \sqrt{64 + 4} \\ &= \sqrt{68} \end{aligned}$$

$$d_{CJ} = 8.246$$

