

9E Problem Solving

- The diagram shows the locations of four mobile phone masts in a field. $BC = 75\text{m}$, $CD = 80\text{m}$, angle $BCD = 55^\circ$ and angle $ADC = 140^\circ$. The masts must be at least 70m apart so that they do not interfere with each other. Given that A is the minimum distance from D, find the distance AB.

