

Solutions

2.1 Same y: horizontal distance $|5-1|=4$.

2.2 Pythagoras gives $\sqrt{4^2+3^2}=5$.

2.3 Average the x-coordinates: $(1+5)/2=3$.

3.1 False. A 3 by 4 rectangle has two diagonals of length 5 but unequal adjacent sides, so it is not a square.

Local review guidance: show the chosen method; give the checked result; explain the condition or failed shortcut. This is authored classroom guidance.