

Solutions

2.1 Midpoint x-coordinate = $(0+6)/2=3$.

2.2 At $x=3$, $y^2=25-9=16$. The positive y-coordinate is 4.

2.3 Distance = $\sqrt{3^2+4^2}=5$.

3.1 False. $A=(-1,0)$, $B=(1,0)$: all points $(0,y)$ are equally distant from A and B, forming the perpendicular bisector of AB. Two points alone do not specify the vertex and two arms of an angle bisector.

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