

Solutions

2.1 $r^2=16$.

2.2 Its straight edge is diameter $2r=8$.

2.3 Subtract squared radii: $25-9=16$.

3.1 False. Radius 4 gives curved length 4π , but the straight diameter adds 8. The full perimeter is $4\pi+8$.

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