

4(ii) $\sin \theta$ increases as θ increases

True

4(iii) $\cos \theta$ increases as θ increases

False

4(iv) $\sin \theta = \cos \theta$ for all θ

False

$$\text{let } \theta = 0^\circ$$

$$\sin 0^\circ = 0$$

$$\cos 0^\circ = 1$$

$$\therefore \text{LHS} \neq \text{RHS}$$

4(v) $\cot A$ is not defined

for $A = 0^\circ$

True