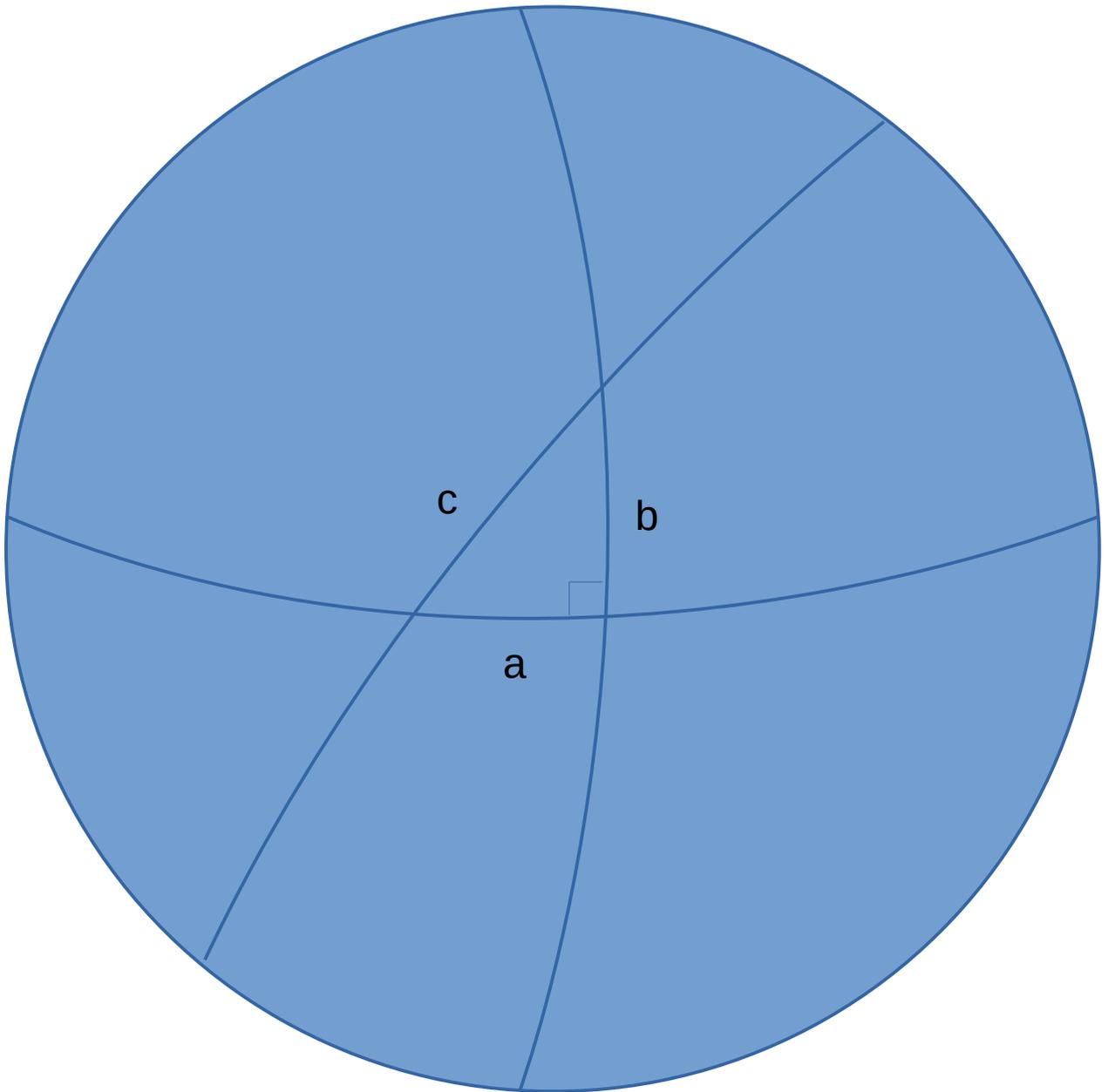# A right angled triangle on the surface of a sphere

On the curved surface of the sphere it is no longer true that $a^2+b^2=c^2$. The truth of Pythagoras' theorem implies that the surface is flat.