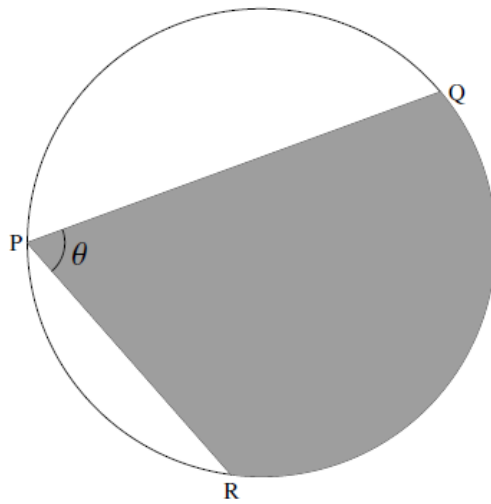


J. If two chords QP and RP on a circle of radius 1 meet in an angle θ at P , for example as drawn in the diagram below,



then the largest possible area of the shaded region RPQ is

- (a) $\theta \left(1 + \cos \left(\frac{\theta}{2} \right) \right)$; (b) $\theta + \sin \theta$; (c) $\frac{\pi}{2} (1 - \cos \theta)$; (d) θ .