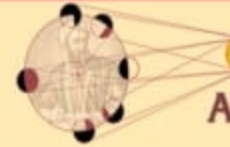


International Journal of Muslim Sciences

المجلة العالمية للعلوم الإسلامية

(A Bi-annual Peer-reviewed Research Journal)

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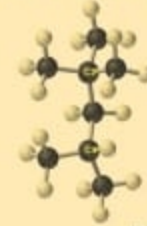


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$$\sin(A + B) = \sin A \cos B + \cos A \sin B$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$



$$\frac{AC}{\sin O} = \frac{R}{\sin A} = \frac{R+h}{\sin C}$$

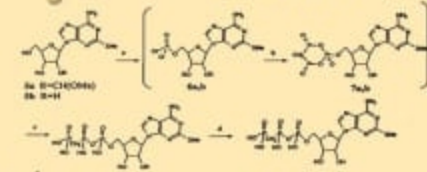
$$\frac{AC}{\sin \alpha} = \frac{R}{\sin(90 - \alpha)} = \frac{R+h}{\sin 90}$$

$$R = \frac{(R+h)\sin(90 - \alpha)}{\sin 90}$$

$$R = (R+h) \cos \alpha$$

$$R = \frac{h \cos \alpha}{1 - \cos \alpha}$$

$$S/2 = \frac{1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots}{2} = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$$



$$x^3 - 3x^2 + 3x - 1,$$



$$\cos \phi/2 = \pm \sqrt{\frac{1 + \cos \phi}{2}}$$

$$\sin \phi/2 = \pm \sqrt{\frac{1 - \cos \phi}{2}}$$

$$\tan \phi/2 = \pm \sqrt{\frac{1 - \cos \phi}{1 + \cos \phi}} = \frac{1 - \cos \phi}{\sin \phi} = \frac{\sin \phi}{1 + \cos \phi}$$



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