© www.studiestode. On the studiestoday. Com quations XI - Assignment No. 15 - Thyono metrical quations al. Find the principal solutions of Re Following Equations: -(i) tand = 13 (ii) Sind = 1 (iii) seco= 2 [I] Fand III (iii) Fand III (iii) Fand SII] 22. Find the general solution of the following Leigendmetrical Equations. $\cos n = \frac{1}{2}$ [$\frac{4ns_{1-}}{n} = 2n\pi \pm \frac{\pi}{3}, n \in \mathbb{Z}$] eans. $\tan 20 = - \cot (0 + 17_3) = n11 + 517, n \in 2$ togy. $\sin 20 - \sin 40 + \sin 60 = 0 \left[\frac{4}{6} = \frac{m}{2} , \frac{m}{2} , \frac{m}{2} \right]$ Coscele = $-\sqrt{2}$ [Ares. $D = n\pi - (-1)\frac{\pi}{4}, n \in \mathbb{Z}$] Eas. $25in^{2}0+\sqrt{3}680+1=0$ $\begin{bmatrix} 0\\0=2ntit \pm 5till, nez \end{bmatrix}$ **D**. ied & rep 2680 + 3500 = 0 [$0 = nT + (1)^{7}T, nG^{2}$] $Sin x + Sin 3x + Sin 5x = O \left[x = \frac{m}{3} \sigma R, mT + \frac{T}{3}, n \in z\right]$ jan Berner Past g 633x + 65x - 632x = 0 77/4 77/4 77/4 68え= 2nT 土 引, n EZ 10. What is The most general Value of & Which satisfies both of Ne Equations $Sin 0 = -\frac{1}{2}$ and $tan 0 = \frac{1}{3}^{2}$. ANS'- O= 2NT+ IT

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