Hardik Aggrund Subjective Test Class: - 11th Trignometric Equations $\sin x \tan x - 1 = \tan x - \sin x$ $\sin x \tan x - \tan x + \sin x - 1 =$ $\tan x \left(\sin x - 1 \right) + 1 \left(\sin x - 1 \right)$ (tanx +1) (sinx -1) =0 II, tanx is not 9-2 tanx + tan 2x + J3 tanx tanax = J3 => tanx + tan 2x = \sqrt{3} - \sqrt{3}tanx tan2x => tanx + tanxx = \(\frac{1}{3} \) (1 - tanx tanxx) $\frac{1}{1-\tan x + \tan 2x} = \sqrt{3}$ \Rightarrow 3x = nTT + II x = xT + T $\Rightarrow \propto = (3n+1) \prod_{q}$

sin 70 - sin 50 = sin 30. sin 0 Mutt. both sides by 2 2 sin 70 - sin 50 = 2 sin 30 - sin 0 cos 120 - cos 20 = cos 40 - cos 20 120 = 2nTT ± 40 120 = 2nTT +40 120 = 2nTT -40 80 = 2nTT

$$9-6. \quad \sin 2\theta + \sin 4\theta + \sin 6\theta = 0$$

$$2 \sin 4\theta \cdot \sin (\cos 2\theta + \sin 4\theta = 0)$$

$$\sin 4\theta = 0$$

$$4\theta = 2\pi \pi + (-1)^{n}(0)$$

$$2\theta = 2\pi + (-1)^{$$

$$\cos u\theta = -1$$

$$\sin \theta = -1$$

$$0 = 2\pi \Pi + (-1)^n (-\Pi)$$

$$0 = 3\pi \Pi + (-1)^n (-\Pi$$