$$\mathcal{T} = (-) \quad a\cos\left(\frac{\sqrt{3}}{\sqrt{7+1}}\right) = (-) \quad a\cos\left(\frac{\sqrt{3}}{2}\right)$$

$$= -\frac{\pi}{6}$$

=)
$$X + \frac{\pi}{6} = \frac{3\pi}{4} + 2\pi K$$

$$=) \times = \frac{3\pi}{4} - \frac{\pi}{6} + 2\pi k \quad \text{or} \quad \frac{5\pi}{4} - \frac{\pi}{6} + 2\pi k$$

$$= \frac{7\pi}{12} + 2\pi k \quad \text{or} \quad \frac{13\pi}{12} \neq 2\pi k$$

Perit # 14 Apr 26, 2022 Re-3-5, Calabate 5m, cos and ten of 20, as well as qued not. Exact value

$$5m 26 = 25m6 cos6$$

$$= 2\left(\frac{-5}{6}\right) \frac{-\sqrt{n}}{6}$$

$$= \frac{1}{18}$$

$$cos 20 = 1 - 2 sin^{2} 6$$

$$= 1 - 2 \left(\frac{2s}{36}\right)$$

$$= 1 - \frac{25}{18} = \boxed{\frac{-7}{18}}$$

$$1-\tan^2\theta$$
 Since $\sin^2\theta$ 0, $\cos^2\theta$ 0, $\cos^2\theta$ 0, $\cos^2\theta$ 0 $\sin^2\theta$ 0 $\sin^$

$$\sin 2\theta = 2\sin \theta \cos \theta \qquad \left[\cos(0\sin x) = \sqrt{1-x^2}\right] \\
= 2 \cdot 11 \cdot \sqrt{1-\frac{1}{121}} \\
= \frac{2}{11} \cdot \sqrt{\frac{120}{121}} \\
= \frac{2}{11} \cdot \sqrt{\frac{120}{121}}$$

$$\tan 2\theta = \frac{\sin 2\theta}{\cos 2\theta}$$

$$\frac{11}{2} \frac{121}{121}$$
 $\frac{2}{121} \frac{2}{120}$ \tag{ take 4 out of rest.}

$$= \boxed{4\sqrt{30}}$$

$$= \boxed{121}$$

$$cos 26 = 1 - 2sm\theta$$

$$= 1 - 2 \left(sin \left(asn \left(\frac{1}{n} \right) \right) \right)^{2}$$

$$= 1 - 2 \left(\frac{1}{n} \right)^{2}$$

$$= 1 - 2 \left(\frac{1}{n} \right)^{2}$$

$$= 1 - \frac{1}{2} \left(\frac{1}{n} \right)^{2}$$

$$Osin \times) = \sqrt{1-x^2}$$

For 6-8 Find sin, co, for of \(\frac{\epsilon}{2} \). Example. 0 0 0 5m = = = + \(\frac{1-\frac{2}{3}}{2} = + \frac{1}{6} $col \frac{G}{2} = \pm \sqrt{\frac{1+col}{2}} = -\sqrt{\frac{1+\frac{2}{3}}{2}} = -\sqrt{\frac{5}{6}}$ tan 2 = 2 = -75 $\frac{1}{3} \Rightarrow \cos \theta = \frac{3}{5}$ T fam G= 3 3 T < G < 4TT

$$\frac{3\pi}{7} = \frac{4\pi}{3} = \frac{3\pi}{3} = \frac{3\pi}{3}$$

8 is similar to 6:47.

$$F(t) = 4 \sin(t) \sin(2t) \sin(4t)$$

$$= 4 \cdot i \left[\cos(2t) - \cos(3t) \right] \cdot \sin(4t)$$

$$= 2 \cos(t) \sin 4t - 2 \cos(3t) \sin(4t)$$

$$= 2 \cdot i \left[\sin(5t) + \sin(3t) \right] - 2 \cdot i \left[\sin(7t) + \sin(t) \right]$$

$$= -\sin(t) + \sin(3t) + \sin(5t) - \sin(7t)$$

$$5in(7x) + 5in(3x) = 0$$

 $\sim 25in(\frac{7x+3x}{2})\cos(\frac{7x-3x}{2})$
 $= 25in(5x)\cos(2x) = 0$

$$| \int \sin 5x = 0$$

$$| \cos (2x) = 0$$

$$| \int x = \frac{\pi}{4} + \frac{\pi}{2} | x |$$

$$= 0 + \frac{\pi}{4} | x |$$

$$\Rightarrow$$
 $\times = \frac{\pi}{5} k$

$$\frac{\cos 6y + \cos 8y}{\sin 6y - \sin 4y} = \cot y \cos 7y \sec 5y$$

$$= \frac{2 \cos (7y) \cos (-Ry)}{\sin (y) \cos (5y)}$$

= cos(7y) cot(y) sedsy) V