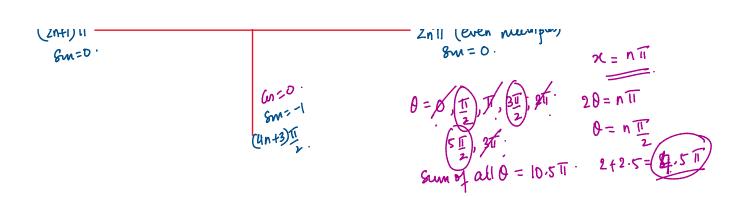
40036° + cot 7.5° = \(\bar{\text{N}_1} + \sqrt{\text{N}_2} + \sqrt{\text{N}_3} + \sqrt{\text{N}_4} + \sqrt{\text{N}_5} + \sqrt{\text{N}_6}



The number of solution of the equation
$$\sin x + \cos x = 2$$
.

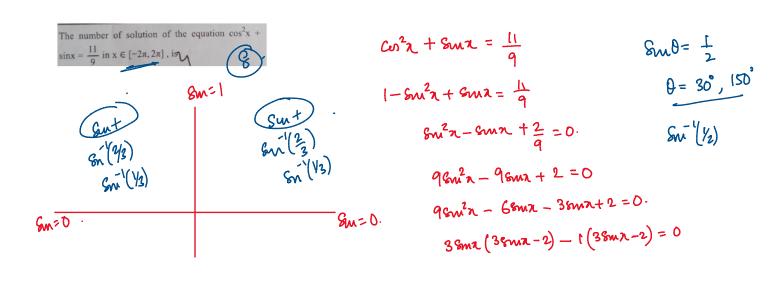
$$x = 2 \sin x + 6 \sin x = \sqrt{a^2 + b^2}$$

$$\frac{a}{\sqrt{a^2 + b^2}} = \sin x \cdot \cos x + \frac{b}{\sqrt{a^2 + b^2}} \cos x + \frac{b}{\sqrt{a^2 + b^2}}$$

$$-\sqrt{a^{2}+b^{2}} \leq \sqrt{a^{2}+b^{2}} \cdot 6m(\alpha+x) \leq \sqrt{a^{2}+b^{2}} \qquad -\sqrt{2} \leq \frac{1}{\sqrt{a^{2}+b^{2}}} \leq a\cos x + b\sin x \leq \sqrt{a^{2}+b^{2}} \qquad \text{Sux+con} \neq 2.$$

K=-3,-2,-1,0 K

Number of integral values of k for which the equation $(3\sin x + 4\cos x + 4)^2 = 9k^2$ $3\sin x + 4\cos x + 4 = \pm 3k$ $3\sin x + 4\cos x + 4 = \pm 3k$ $-3^2+4^2 \le 3\cos x + 4\cos x \le \sqrt{3^2+4^2}$ $-5 \le 3\sin x + 4\cos x \le 5$ $-5 \le -4 \pm 3k \le 5$ $-5 \le -4 \pm 3k \le 5$ $3k \ge -1$ $3k \le 9$ $k \le 1$ $k \ge -3$ $k \le 1$ $k \ge -3$ $k \le 3$ $k \ge -3$ $k \le 3$



$$38ma (38ma - 2) - t (38ma - 2) = 0$$

$$(38ma - 2)(38ma - 1) = 0$$

$$8ma - \frac{2}{3}, \frac{1}{3}.$$

$$2^{2}\left(\frac{2}{3}\right), \frac{1}{3}$$