$$Siux + cosx = \frac{1}{5}$$

Angolo agginto: a sinx + b cosx = 
$$r \sin(x + a)$$
  $r = \sqrt{a^2 + b^2}$   $x = \operatorname{orctg}(\frac{b}{a})$   $r = \sqrt{2}$   $x = \operatorname{orctg}(1) = \frac{\pi}{a}$ 

$$\sqrt{2} \sin \left(x + \frac{\pi}{a}\right) = \frac{1}{5}$$

$$\sin\left(x + \frac{\pi}{4}\right) = \frac{1}{5\ell^2} = \frac{12}{10}$$

$$x + \frac{\pi}{4} = \arcsin\left(\frac{12}{10}\right) + 2k\pi \qquad x + \frac{\pi}{4} = \pi - \arcsin\left(\frac{12}{10}\right) + 2k\pi$$



$$Slm^{2} \times + cos^{2} \times + 2 sin \times cos \times = \frac{1}{25}$$

$$1 + Sin 2 \times = \frac{1}{25}$$

$$\sin 2x = -\frac{24}{25}$$

$$2x = arcsin\left(-\frac{2G}{2S}\right) + 2kT$$

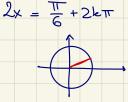
$$2x = \pi - \arcsin\left(-\frac{24}{25}\right) + 2k\pi$$

$$n68: 3 \sec 2x = 2$$

$$V3 = 2\cos 2x$$

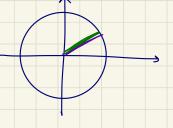
$$\cos 2x = \frac{13}{2}$$

$$2x = -\frac{\pi}{6} + 2k\pi$$

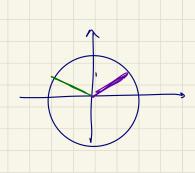


$$x = -\frac{11}{12} + k11$$

$$121 : \sin \left(2x - \frac{\pi}{3}\right) = \sin \left(2x\right)$$



$$-\frac{\pi}{3} = 2k\pi$$
 Impossibile



$$4x = \frac{4}{3}\pi + 2k\pi$$

2x-== T - 2x + 2k T

$$x = \frac{1}{3} \pi + \frac{1}{2} \pi$$