

$$\operatorname{tg}x = \sqrt{3}$$

$$x = \pi/3 + 2Pk, k \in \mathbb{Z}$$

$$x = 4\pi/3 + 2Pk, k \in \mathbb{Z}$$

$$x = \pi/3 + Pk, k \in \mathbb{Z}$$

$$\operatorname{ctg}x = -1/2$$

$$x = \operatorname{arccctg}(-1/2) + 2pk$$

$$x = \pi + \operatorname{arccctg}(-1/2) + 2pk$$

$$x = \operatorname{arccctg}(-1/2) + pk$$

$$\operatorname{tg}x = 1/3$$

$$x = \operatorname{arctg}(1/3) + 2Pk$$

$$x = \pi + \operatorname{arctg}(1/3) + 2Pk$$

$$x = \operatorname{arctg}(1/3) + Pk$$

$$\operatorname{tg}x = 0$$

$$x = \pi + 2Pk$$

$$x = 0 + 2Pk$$

$$x = Pk$$

$$\operatorname{ctg}x = 0$$

$$x = \pi/2 + 2Pk$$

$$x = 3\pi/2 + 2Pk$$

$$x = \pi/2 + Pk$$

