

$$\sin(2x + P/3) > -1/2$$

$$-P/6 + 2pk < 2x + P/3 < 7P/6 + 2pk$$

$$-P/6 + 2pk - P/3 < 2x < 7P/6 + 2pk - P/3$$

$$-3P/6 + 2pk < 2x < 9P/6 + 2pk$$

$$-P/2 + 2pk < 2x < 3P/2 + 2pk$$

$$-P/4 + pk < x < 3P/4 + pk$$

$$\cos(P/4 - x/2) \leq -\sqrt{2}/2$$

$$3P/4 + 2pk \leq P/4 - x/2 \leq 5P/4 + 2pk$$

$$3P/4 + 2pk - P/4 \leq -x/2 \leq 5P/4 + 2pk - P/4$$

$$-P/4 + pk \geq x \geq -3P/4 + pk$$

$$\cos x \leq 1/3$$

$$\arccos(1/3) + 2pk \leq x \leq 2P - \arccos(1/3) + 2pk$$

$$\tan(P/6 - 3x) \leq -\sqrt{3}$$

$$P/2 + pk \leq P/6 - 3x \leq 2P/3 + pk$$

$$P/2 + pk - P/6 \leq -3x \leq 2P/3 + pk - P/6$$

$$2P/6 + pk \leq -3x \leq 3P/6 + pk$$

$$2P/18 + pk/3 \leq -x \leq 3P/18 + pk/3$$

$$-P/9 - pk/3 \geq x \geq -P/6 - pk/3$$

$$|\sin x| \geq \sqrt{2}/2$$

$$P/4 + pk \leq x \leq 3P/4 + pk$$

