Thuronometh. Jp-8

Справочные материалы

 $\sin^{2}\alpha + \cos^{2}\alpha = 1$ $\sin 2\alpha = 2\sin\alpha \cdot \cos\alpha$ $\cos 2\alpha = \cos^{2}\alpha - \sin^{2}\alpha$ $\sin(\alpha + \beta) = \sin\alpha \cdot \cos\beta + \cos\alpha \cdot \sin\beta$ $\cos(\alpha + \beta) = \cos\alpha \cdot \cos\beta - \sin\alpha \cdot \sin\beta$

+ 1) Tas mente gnarenus

2) cb-bes &-gent

3) &- nor penelen, spoctor

yp-neur

Тастные слуган простых ур-ней:

1)
$$\sin x = 0$$

 $x = \pi k, k \in \mathbb{Z}$

$$2 \cos x = 0$$

$$X = \frac{\pi}{2} + f_{1}k, \ k \in \mathbb{Z}$$

3
$$\sin x = \pm 1$$

 $x = \pm \frac{\pi}{2} + 2\pi k, k \in \mathbb{Z}$

$$(4) \cos x = 1$$

$$X = 2\pi k, k \in \mathcal{X}$$

$$5 \cos x z - 1$$

$$X = \pi + 2\pi k, k \in \mathbb{Z}$$

6
$$tgx=0$$
 ($tg:\frac{sig}{sus}$)
 $x=Tk, k\in \mathbb{Z}$

$$\begin{array}{ccc}
\text{I} & \text{Cfp} \times = 0 & \text{(cfp} = \frac{\cos s}{\sin s}) \\
\text{X} = \frac{\pi}{4} + \pi k, & \text{ke} \neq
\end{array}$$

8
$$tgx = \pm 1$$

 $x = \pm \frac{\pi}{4} + \pi k, k \in \mathcal{E}$
9 $cfgx = \pm 1$
 $x = \pm \frac{\pi}{4} + \tau k, k \in \mathcal{E}$

6.1.
$$\sin\left(\frac{\pi x}{2}\right) = -1$$
 $\frac{\sin d = -1}{\frac{\pi x}{2}} = d = -\frac{\pi}{2} + 2\pi k, k \in \mathbb{Z}$
 $x = ?$ Suppressible no 2 4 paggesus seq \overline{z} :

X=-1+4k, kEZ

В ответ записать наибольший отрицательный корень

1)
$$nog 80p$$

$$k = 0 ; X = -1 < 0$$

$$k = 1 ; X = -1 + 4 = 3 > 0$$

$$k = -1 ; X = -1 - 4 = -5 < 0$$

Tipu
$$k = 0, -1, -2, \dots \times 20$$

Other: -1 (npm $k = 0$)

2) $\times 20!$ -1+4 $k = 20$ => $k = \frac{1}{4}$

Tipu mosom $k \in \mathbb{Z}$ 4 $k = \frac{1}{4}$ 84947 $\times 20$:

 $k = 0, -1, -2, \dots \times 20$