

Senin, 10/01/2022.

No.

Date. / /

k). Nama: Paulus. M. J. Rayar

Kelas: X MIPA6.

sudut lebih besar dari  $360^\circ$  dan sudut negatif.

1. Tentukan nilai  $\tan 1$ ,  $\tan 2$ ,  $\tan 3$ , ..., .., ..  
 $\tan 89$ .

$$\tan 89 = \cot 1$$

$$\tan 1 \times \cot 1 = 1$$

$$(\tan 1 \times \tan 89) (\tan 2 \times \tan 88) (\tan 3 \times \tan 87) \dots$$
$$(\tan 44 \times \tan 46) \dots$$

$$(\tan 45) = 1$$

2).  $\sin (5a + 48^\circ) = \cos (10 - 3a^\circ)$

$$\cos 90 - (5a - 48^\circ) = \cos (10 - 3a)^\circ$$

$$90 - (5a + 48^\circ) = 10 - 3a$$

$$90 - 5a - 48 = 10 - 3a$$

$$-5a + 3a = 10 - 99 + 48$$

$$-2a = -32$$

$$a = 16^\circ$$

3).  $\sin (360^\circ - a) = -\sin a$

$$\cos (360^\circ + a) = \cos a$$

$$\cos (90^\circ + a) = -\sin a$$

$$\cos (90^\circ - a) = \sin a$$

$$4 \cdot \sin (360^\circ - 70^\circ) + 2 \cos (360 + 160^\circ) - n \cdot \cos (90^\circ - 70^\circ) = 0$$

$$4 \cdot \sin (-\sin 70^\circ) + 2 \cos 160^\circ - n \cdot \sin 70^\circ = 0$$

$$4 \cdot (-\sin 70^\circ) + 2 \cos (90 + 70^\circ) - n \cdot \sin 70^\circ = 0$$

$$-4 \sin 70^\circ + 2(-\sin 70^\circ) - n \sin 70^\circ = 0$$

$$-4 \sin 70^\circ - 2 \sin 70^\circ - n \cdot \sin 70^\circ = 0$$

$$-4 - 2 - n = 0$$
$$-6 - n = 0$$
$$n = -6$$

estudeer