Nama: Manderouw kapisa
kelas : X MIPA 6.

Jawaban :

1) Tentukan nilai $\tan 1^\circ . \tan 2^\circ . \tan 3^\circ \ldots \ldots \tan 89^\circ$

$= (\tan 1^\circ \tan 89^\circ)(\tan 2^\circ \tan 88^\circ)(\tan 3^\circ \tan 87^\circ) \ldots$
$(\tan 44^\circ \tan 46^\circ) . \tan 45^\circ$
$= 1 \times 1 \times 1 \times 1 \times \ldots \times 1 \times 1$
$= 1 \rightarrow$ hasil perkalian

2) $\sin (5a + 48)^\circ = \cos (10 - 3a)^\circ$
$\cos \{90 - (5a + 48)^\circ\} = \cos (10 - 3a)^\circ$
$90 - (5a + 48) = 10 - 3a$
$90 - 5a - 48 = 10 - 3a$
$-5a + 3a = 10 - 90 + 48$
$-2a = -32$
$a = 16^\circ$

3) $4 \sin 290^\circ + 2 \cos 520^\circ - n \cos 20^\circ = 0$
$4 \sin (360 - 70)^\circ + 2 \cos (360 + 160)^\circ - n \cos 20^\circ = 0$
$-4 \sin 70^\circ + 2 \cos 160^\circ - n \cos 20^\circ = 0$
$-4 \cos (90 - 70)^\circ + 2 \cos (180 - 20)^\circ - n \cos 20^\circ = 0$
$-4 \cos 20^\circ + 2 \cos 20^\circ - n \cos 20^\circ = 0$
$(-4 + 2 - n) \cos 20^\circ = 0$
$-4 + 2 - n = 0$
$-2 - n = 0$
$n = -2.$