

Name

Kelas

PILIH LAH JAWABAN YANG PALING TEPAT

1. $\cos 75^\circ = \dots\dots\dots$

- A. $\frac{1}{4}(\sqrt{3} - \sqrt{2})$
- B. $\frac{1}{4}(\sqrt{3} + \sqrt{6})$
- C. $\frac{1}{4}(\sqrt{6} - \sqrt{2})$
- D. $\frac{1}{4}(\sqrt{2} - \sqrt{6})$
- E. $\frac{1}{4}(\sqrt{6} + \sqrt{2})$

2. $\cos(x - 45^\circ) = \dots\dots\dots$

- A. $\frac{1}{2}\sqrt{2}(\cos x + \sin x)$
- B. $\frac{1}{2}\sqrt{2}(\cos x - \sin x)$
- C. $\frac{1}{2}\sqrt{2}(\sin x - \cos x)$
- D. $\frac{1}{2}\sqrt{3}(\cos x + \sin x)$
- E. $\frac{1}{2}\sqrt{3}(\cos x - \sin x)$

3. Jika α dan β sudut lancip dengan $\cos \alpha = \frac{3}{5}$

dan $\cos \beta = \frac{1}{2}\sqrt{2}$, maka $\cos(\alpha + \beta) = \dots\dots\dots$

- A. -1
- B. $\frac{1}{10}$
- C. $\frac{2}{5}\sqrt{2}$
- D. $\frac{1}{10}\sqrt{2}$
- E. $-\frac{1}{10}\sqrt{2}$

4. $\cos 125^\circ \cos 35^\circ + \sin 125^\circ \sin 35^\circ$ sama dengan

- A. 1
- B. $\frac{1}{2}\sqrt{3}$
- C. $-\frac{1}{2}\sqrt{3}$
- D. $\frac{1}{2}$
- E. 0

5. Jika $\tan \alpha = \frac{7}{24}$ dan $\tan \beta = \frac{3}{4}$ dengan α dan β merupakan sudut lancip, hasil dari $\cos(\alpha - \beta) = \dots\dots$

- A. $\frac{2}{5}$
- B. $\frac{3}{5}$
- C. $\frac{110}{125}$
- D. $\frac{115}{125}$
- E. $\frac{117}{125}$

6. $\sin 4x \cdot \sin 3x - \cos 4x \cdot \cos 3x = \dots\dots\dots$

- A. $\sin x$
- B. $\cos x$
- C. $-\cos x$
- D. $-\cos 7x$
- E. $\cos 7x$

7. Nilai dari $\sin 79^\circ \cos 11^\circ + \cos 79^\circ \sin 11^\circ$ adalah

- A. 0
- B. $\frac{1}{2}$
- C. $\frac{1}{2}\sqrt{2}$
- D. $\frac{1}{2}\sqrt{3}$
- E. 1

8. Jika $\alpha + \beta = 30^\circ$ dan $\sin \alpha \cos \beta = \frac{1}{3}$ maka $\cos \alpha \sin \beta = \dots \dots \dots$

- A. $\frac{1}{6}$
- B. $\frac{1}{5}$
- C. $\frac{1}{4}$
- D. $\frac{1}{3}$
- E. $\frac{1}{2}$

9. Jika $\sin x = \frac{2\sqrt{2}}{3}$, dengan x sudut lancip, maka $\sin (x + 30^\circ) = \dots \dots \dots$

- A. $\frac{1}{6}(2\sqrt{6} + 1)$
- B. $\frac{1}{6}(2\sqrt{6} - 1)$
- C. $\frac{1}{6}(1 - 2\sqrt{6})$
- D. $\frac{1}{6}(\sqrt{6} + \sqrt{2})$
- E. $\frac{1}{6}(\sqrt{6} - \sqrt{2})$

10. Jika $\sin A = \frac{3}{5}$ dan $\cotan B = \frac{24}{7}$, $\sin (A - B) = \dots \dots \dots$

- A. $\frac{1}{125}$
- B. $\frac{11}{125}$
- C. $\frac{22}{125}$
- D. $\frac{33}{125}$
- E. $\frac{44}{125}$

11. Dalam $\triangle ABC$, diketahui $\sin A = \frac{4}{5}$ dan

$\cotan B = \frac{4}{3}$. Nilai $\sin C$ adalah $\dots \dots \dots$

- A. -1
- B. $\frac{1}{5}$
- C. $\frac{12}{25}$
- D. $\frac{24}{25}$
- E. 1

12. $\tan 75^\circ = \dots\dots\dots$

- A. $2 + \sqrt{3}$
- B. $2 - \sqrt{3}$
- C. $-2 + \sqrt{3}$
- D. $2 + \sqrt{2}$
- E. $2 - \sqrt{2}$

13. Diketahui $\sin \alpha = \frac{3}{5}$ dan $\cos \beta = \frac{5}{13}$

dengan α dan β sudut lancip. Nilai $\tan(\alpha - \beta) = \dots\dots\dots$

- A. $-\frac{9}{4}$
- B. $-\frac{33}{56}$
- C. $-\frac{13}{56}$
- D. $\frac{33}{56}$
- E. $\frac{9}{4}$

14. $\tan A = 2$ dan $\tan (A - B) = 0,75$, maka $\tan B = \dots\dots\dots$

- A. 1
- B. 0,5
- C. 1,5
- D. 12,5
- E. 2,5

15. Jika $\tan (A + B) = \frac{4}{3}$ dan $\tan B = \frac{1}{2}$, maka nilai $\tan A = \dots\dots\dots$

- A. $\frac{3}{2}$
- B. $\frac{1}{2}$
- C. $\frac{1}{4}$
- D. $\frac{8}{3}$
- E. $\frac{5}{6}$

Selamat mengerjakan semoga sukses