



## TUGAS 2

# PERSAMAAN TRIGONOMETRI DASAR

OLEH RINI WEDYASTUTI, S.PD

NAME

CLASS

TENTUKAN HIMPUNAN PENYELESAIAN DARI SETIAP SOAL BERIKUT  
DENGAN CARA MENJODOHKAN SOAL DAN JAWABAN DI SEBELAH KANAN

### SOAL

### HIMPUNAN PENYELESAIAN

$$2 \sin 2x - 1 = 0 ;$$
$$0^\circ \leq x \leq 360^\circ$$

$$\{65^\circ, 245^\circ\}$$

$$\tan (x-25^\circ) = \tan 40^\circ ;$$
$$0^\circ \leq x \leq 360^\circ$$

$$\{15^\circ, 105^\circ, 135^\circ, 225^\circ, 345^\circ\}$$

$$\tan (x + 25^\circ) = -\sqrt{3},$$
$$0^\circ \leq x \leq 360^\circ$$

$$\{15^\circ, 75^\circ, 195^\circ, 255^\circ\}$$

$$2 \cos 3x - \sqrt{2} = 0 ;$$
$$0^\circ \leq x \leq 360^\circ$$

$$\{25^\circ, 95^\circ, 275^\circ\}$$

$$\{95^\circ, 275^\circ\}$$

PILIH LAH HIMPUNAN PENYELESAIAN YANG TEPAT

DENGAN CARA MENARIK (DRAG) JAWABAN YANG BENAR MENEMPEL KE SOAL

$$\sin x = \sin \frac{3}{8}\pi, \\ 0 \leq x \leq 2\pi$$

$$\left\{ \frac{5}{24}\pi, \frac{7}{24}\pi, \frac{17}{24}\pi, \frac{19}{24}\pi \right\}$$

$$\cos x = \cos \frac{3}{5}\pi, \\ 0 \leq x \leq 2\pi$$

$$\left\{ \frac{17}{60}\pi, \frac{47}{60}\pi, \frac{77}{60}\pi, \frac{107}{60}\pi \right\}$$

$$\sin \left(x + \frac{1}{5}\pi\right) = 1; \\ 0 \leq x \leq 2\pi$$

$$\left\{ \frac{5}{12}\pi, \frac{17}{12}\pi \right\}$$

$$2 \cos 4x + \sqrt{3} = 0; \\ 0^\circ \leq x \leq \pi$$

$$\left\{ \frac{1}{8}\pi, \frac{1}{4}\pi, \frac{5}{8}\pi, \frac{9}{8}\pi, \frac{5}{4}\pi, \frac{13}{8}\pi \right\}$$

$$\left\{ \frac{3}{10}\pi \right\}$$

$$\tan \left(2x - \frac{2}{5}\pi\right) = \frac{1}{3}\sqrt{3}, \\ 0^\circ \leq x \leq 2\pi$$

$$\left\{ \frac{9}{8}\pi, \frac{5}{4}\pi, \frac{13}{8}\pi \right\}$$

$$\sin 3x = \cos x, \\ \pi \leq x \leq 2\pi$$

$$\left\{ \frac{3}{5}\pi, \frac{2}{5}\pi \right\}$$

