



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

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

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

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

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

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

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

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

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

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

PILIH LAH HIMPUNAN PENYELESAIAN YANG TEPAT

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

$$\sin x = \sin \frac{5}{8} \pi, \\ 0 \leq x \leq 2\pi$$

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

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

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

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

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

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

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

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

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

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

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

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

