A. Berilah tanda silang (X) pada satu jawaban A, B, C, D, atau E yang paling tepat!

1. Himpunan penyelesaian dari $\sin x = \sin \frac{5}{12}\pi$ untuk $0 \le x \le 2\pi$ adalah . . . .
   A. $\{\frac{5}{12}\pi, \frac{7}{12}\pi\}$
   B. $\{\frac{5}{12}\pi, \frac{2}{3}\pi\}$
   C. $\{\frac{5}{12}\pi, \frac{3}{4}\pi\}$
   D. $\{\frac{5}{12}\pi, \frac{5}{6}\pi\}$
   E. $\{\frac{5}{12}\pi, \frac{11}{12}\pi\}$

2. Himpunan penyelesaian dari $\cos x = \cos 35^\circ$ untuk $0^\circ \le x \le 360^\circ$ adalah . . . .
   A. $\{35^\circ, 145^\circ\}$
   B. $\{35^\circ, 175^\circ\}$
   C. $\{35^\circ, 325^\circ\}$
   D. $\{35^\circ, 235^\circ\}$
   E. $\{35^\circ, 285^\circ\}$

3. Himpunan penyelesaian dari $\tan x = \tan 70^\circ$ untuk $0^\circ \le x \le 360^\circ$ adalah . . . .
   A. $\{70^\circ, 350^\circ\}$
   B. $\{70^\circ, 300^\circ\}$
   C. $\{70^\circ, 210^\circ\}$
   D. $\{70^\circ, 160^\circ\}$
   E. $\{70^\circ, 250^\circ\}$

4. Himpunan penyelesaian dari $\sin 3x = \sin 36^\circ$ untuk $0^\circ \le x \le 360^\circ$ adalah . . . .
   A. $\{12^\circ, 38^\circ, 132^\circ, 168^\circ, 252^\circ, 278^\circ\}$
   B. $\{12^\circ, 48^\circ, 132^\circ, 168^\circ, 252^\circ, 288^\circ\}$
   C. $\{12^\circ, 58^\circ, 132^\circ, 168^\circ, 242^\circ, 288^\circ\}$
   D. $\{12^\circ, 48^\circ, 142^\circ, 168^\circ, 242^\circ, 278^\circ\}$
   E. $\{12^\circ, 58^\circ, 142^\circ, 158^\circ, 252^\circ, 288^\circ\}$

5. Himpunan penyelesaian dari $\cos 5x = \cos \frac{5}{8}\pi$ untuk $0 \le x \le 2\pi$ adalah . . . .
   A. $\{\frac{1}{8}\pi, \frac{13}{40}\pi, \frac{23}{40}\pi, \frac{27}{40}\pi, \frac{37}{40}\pi, \frac{41}{40}\pi, \frac{51}{40}\pi, \frac{59}{40}\pi, \frac{69}{40}\pi, \frac{15}{8}\pi\}$
   B. $\{\frac{1}{8}\pi, \frac{11}{40}\pi, \frac{21}{40}\pi, \frac{29}{40}\pi, \frac{39}{40}\pi, \frac{43}{40}\pi, \frac{53}{40}\pi, \frac{57}{40}\pi, \frac{67}{40}\pi, \frac{15}{8}\pi\}$
   C. $\{\frac{1}{8}\pi, \frac{11}{40}\pi, \frac{23}{40}\pi, \frac{27}{40}\pi, \frac{39}{40}\pi, \frac{43}{40}\pi, \frac{53}{40}\pi, \frac{59}{40}\pi, \frac{67}{40}\pi, \frac{15}{8}\pi\}$
   D. $\{\frac{1}{8}\pi, \frac{11}{40}\pi, \frac{21}{40}\pi, \frac{27}{40}\pi, \frac{37}{40}\pi, \frac{43}{40}\pi, \frac{53}{40}\pi, \frac{59}{40}\pi, \frac{69}{40}\pi, \frac{15}{8}\pi\}$
   E. $\{\frac{1}{8}\pi, \frac{13}{40}\pi, \frac{21}{40}\pi, \frac{29}{40}\pi, \frac{37}{40}\pi, \frac{43}{40}\pi, \frac{53}{40}\pi, \frac{57}{40}\pi, \frac{69}{40}\pi, \frac{15}{8}\pi\}$

6. Himpunan penyelesaian dari $\sin (x - 54^\circ) = \sin 24^\circ$ untuk $0^\circ \le x \le 360^\circ$ adalah . . . .
   A. $\{78^\circ, 210^\circ\}$
   B. $\{30^\circ, 240^\circ\}$
   C. $\{58^\circ, 210^\circ\}$
   D. $\{78^\circ, 240^\circ\}$
   E. $\{30^\circ, 210^\circ\}$

7. Himpunan penyelesaian dari $\cos (x + \frac{1}{2}\pi) = \cos \frac{2}{3}\pi$ untuk $0 \le x \le 2\pi$ adalah . . . .
   A. $\{\frac{1}{6}\pi, \frac{1}{2}\pi\}$
   B. $\{\frac{1}{6}\pi, \frac{3}{2}\pi\}$
   C. $\{\frac{1}{6}\pi, \frac{5}{6}\pi\}$
   D. $\{\frac{1}{6}\pi, \frac{7}{6}\pi\}$
   E. $\{\frac{1}{6}\pi, \frac{11}{6}\pi\}$

8. Himpunan penyelesaian dari $\tan (x + 25^\circ) = \tan 50^\circ$ untuk $0^\circ \le x \le 360^\circ$ adalah . . . .
   A. $\{25^\circ, 105^\circ\}$
   B. $\{25^\circ, 205^\circ\}$
   C. $\{25^\circ, 305^\circ\}$
   D. $\{75^\circ, 105^\circ\}$
   E. $\{75^\circ, 205^\circ\}$

9. Himpunan penyelesaian dari $\sin (3x - \frac{1}{3}\pi) = \sin \frac{1}{4}\pi$ untuk $0 \le x \le 2\pi$ adalah . . . .
   A. $\{\frac{5}{36}\pi, \frac{13}{36}\pi, \frac{31}{36}\pi, \frac{37}{36}\pi, \frac{57}{36}\pi, \frac{61}{36}\pi\}$
   B. $\{\frac{5}{36}\pi, \frac{11}{36}\pi, \frac{35}{36}\pi, \frac{41}{36}\pi, \frac{55}{36}\pi, \frac{61}{36}\pi\}$
   C. $\{\frac{7}{36}\pi, \frac{11}{36}\pi, \frac{31}{36}\pi, \frac{35}{36}\pi, \frac{47}{36}\pi, \frac{61}{36}\pi\}$
   D. $\{\frac{7}{36}\pi, \frac{13}{36}\pi, \frac{31}{36}\pi, \frac{37}{36}\pi, \frac{55}{36}\pi, \frac{61}{36}\pi\}$
   E. $\{\frac{7}{36}\pi, \frac{11}{36}\pi, \frac{31}{36}\pi, \frac{37}{36}\pi, \frac{57}{36}\pi, \frac{61}{36}\pi\}$

10. Himpunan penyelesaian dari $\cos (5x + 12) = \cos 62^\circ$ untuk $0^\circ \le x \le 360^\circ$ adalah . . . .
    A. $\{10^\circ, 67{,}2^\circ, 82^\circ, 129{,}2^\circ, 164^\circ, 201{,}2^\circ, 226^\circ, 273{,}2^\circ, 298^\circ, 345{,}2^\circ\}$
    B. $\{10^\circ, 57{,}2^\circ, 92^\circ, 127{,}2^\circ, 154^\circ, 201{,}2^\circ, 226^\circ, 263{,}2^\circ, 298^\circ, 345{,}2^\circ\}$
    C. $\{10^\circ, 57{,}2^\circ, 82^\circ, 127{,}2^\circ, 164^\circ, 211{,}2^\circ, 216^\circ, 273{,}2^\circ, 288^\circ, 345{,}2^\circ\}$
    D. $\{10^\circ, 67{,}2^\circ, 82^\circ, 127{,}2^\circ, 154^\circ, 211{,}2^\circ, 226^\circ, 263{,}2^\circ, 298^\circ, 345{,}2^\circ\}$
    E. $\{10^\circ, 57{,}2^\circ, 82^\circ, 129{,}2^\circ, 154^\circ, 201{,}2^\circ, 226^\circ, 273{,}2^\circ, 298^\circ, 345{,}2^\circ\}$