

Advanced Math

$$12) \left\{ \begin{array}{l} \frac{\pi}{6} + 2\pi n, n \in \mathbb{Z} \\ \frac{5\pi}{6} + 2\pi n, n \in \mathbb{Z} \end{array} \right\} \quad 13) \left\{ \begin{array}{l} \frac{\pi}{3} + 2\pi n, n \in \mathbb{Z} \\ \frac{2\pi}{3} + 2\pi n, n \in \mathbb{Z} \end{array} \right\} \quad 14) \left\{ \frac{3\pi}{4} + \pi n, n \in \mathbb{Z} \right\}$$

$$15) \left\{ \begin{array}{l} \frac{\pi}{6} + \pi n, n \in \mathbb{Z} \\ \frac{5\pi}{6} + \pi n, n \in \mathbb{Z} \end{array} \right\} \quad 16) \left\{ \frac{\pi}{4} + \frac{\pi}{2} n, n \in \mathbb{Z} \right\} \quad 17) \left\{ \frac{\pi}{3} + \frac{\pi}{4} n, n \in \mathbb{Z} \right\}$$

$$18) \left\{ \begin{array}{l} \frac{\pi}{9} + \frac{\pi}{3} n, n \in \mathbb{Z} \\ \frac{2\pi}{9} + \frac{\pi}{3} n, n \in \mathbb{Z} \end{array} \right\} \quad 19) \left\{ \begin{array}{l} \frac{\pi}{3} + \pi n, n \in \mathbb{Z} \\ \frac{2\pi}{3} + \pi n, n \in \mathbb{Z} \end{array} \right\} \quad 20) \left\{ \begin{array}{l} 0 + \pi n, n \in \mathbb{Z} \\ \frac{3\pi}{2} + \pi n, n \in \mathbb{Z} \end{array} \right\}$$

$$21) \left\{ \begin{array}{l} \frac{\pi}{3} + \pi n, n \in \mathbb{Z} \\ \frac{2\pi}{3} + \pi n, n \in \mathbb{Z} \end{array} \right\} \quad 22) \left\{ \begin{array}{l} 0 + \frac{\pi}{3} n, n \in \mathbb{Z} \\ \frac{\pi}{4} + \pi n, n \in \mathbb{Z} \end{array} \right\} \quad 23) \left\{ \begin{array}{l} \frac{\pi}{6} + \pi n, n \in \mathbb{Z} \\ \frac{5\pi}{6} + \pi n, n \in \mathbb{Z} \\ \frac{\pi}{3} + \pi n, n \in \mathbb{Z} \\ \frac{2\pi}{3} + \pi n, n \in \mathbb{Z} \end{array} \right\}$$

$$24) \left\{ \begin{array}{l} \frac{\pi}{4} + \frac{\pi}{2} n, n \in \mathbb{Z} \\ \frac{2\pi}{3} + 2\pi n, n \in \mathbb{R} \\ \frac{4\pi}{3} + 2\pi n, n \in \mathbb{R} \end{array} \right\} \quad 25) \left\{ \frac{\pi}{2}, \frac{3\pi}{2}, 0, \pi \right\} \quad 26) \left\{ \frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4} \right\} \quad 27) \left\{ 0, \pi, \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6} \right\}$$

$$28) \left\{ \frac{\pi}{2}, \frac{3\pi}{2}, \frac{2\pi}{3}, \frac{4\pi}{3} \right\} \quad 35) \left\{ \frac{\pi}{2} \right\}$$

$$29) \left\{ \frac{\pi}{3}, \frac{5\pi}{3}, \pi \right\} \quad 36) \left\{ \frac{\pi}{12}, \frac{7\pi}{12}, \frac{13\pi}{12}, \frac{19\pi}{12}, \frac{5\pi}{12}, \frac{11\pi}{12}, \frac{17\pi}{12}, \frac{23\pi}{12} \right\}$$

$$30) \left\{ \frac{\pi}{3}, \frac{5\pi}{3} \right\} \quad 37) \{ \pi \}$$

$$31) \emptyset \quad 38) \left\{ \frac{7\pi}{6}, \frac{11\pi}{6}, \frac{3\pi}{2} \right\}$$

$$32) \left\{ \frac{2\pi}{3}, \frac{5\pi}{3}, \frac{5\pi}{6}, \frac{11\pi}{6} \right\} \quad 39) \left\{ \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6} \right\}$$

$$33) \left\{ \frac{\pi}{2} \right\} \quad 40) \left\{ \frac{\pi}{3}, \frac{5\pi}{3} \right\}$$

$$34) \left\{ \frac{\pi}{12}, \frac{3\pi}{4}, \frac{17\pi}{12}, \frac{5\pi}{12}, \frac{13\pi}{12}, \frac{7\pi}{4} \right\}$$