

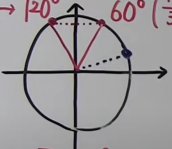
三角関数を含む方程式3

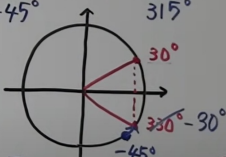
数Ⅱ(三角関数を含む方程式・不等式③)

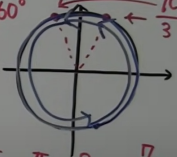
〇〇 $0 \leq \theta < 2\pi$ のとき、次の方程式を解こう。

① $\sin(\theta + \frac{\pi}{6}) = \frac{\sqrt{3}}{2}$ ② $\cos(\theta - \frac{\pi}{4}) = \frac{\sqrt{3}}{2}$ ③ $\sin(2\theta - \frac{\pi}{3}) = \frac{\sqrt{3}}{2}$

数Ⅱ(三角関数を含む方程式・不等式③)
〇〇 $0 \leq \theta < 2\pi$ のとき、次の方程式を解こう。

① $\sin(\theta + \frac{\pi}{6}) = \frac{\sqrt{3}}{2}$
 $\frac{\pi}{6} \leq \theta + \frac{\pi}{6} < \frac{13}{6}\pi$
 $\frac{2}{3}\pi \rightarrow 120^\circ$ $60^\circ (\frac{\pi}{3})$

 $\theta + \frac{\pi}{6} = \frac{\pi}{3}, \frac{2}{3}\pi$
 $\theta = \frac{\pi}{6}, \frac{\pi}{2}$

② $\cos(\theta - \frac{\pi}{4}) = \frac{\sqrt{3}}{2}$
 $-\frac{\pi}{4} \leq \theta - \frac{\pi}{4} < \frac{7}{4}\pi$
 -45° 315°

 $\theta - \frac{\pi}{4} = -\frac{\pi}{6}, \frac{7}{6}$
 $\theta = \frac{\pi}{12}, \frac{5}{12}\pi$

③ $\sin(2\theta - \frac{\pi}{3}) = \frac{\sqrt{3}}{2}$
 $-\frac{\pi}{3} \leq 2\theta - \frac{\pi}{3} < \frac{11}{3}\pi$
 -60° $\frac{\pi}{3}, \frac{2}{3}\pi$

 $2\theta - \frac{\pi}{3} = \frac{\pi}{3}, \frac{2}{3}\pi, \frac{7}{3}\pi, \frac{8}{3}\pi$
 $\theta = \frac{\pi}{3}, \frac{\pi}{2}, \frac{4}{3}\pi, \frac{3}{2}\pi$