

2.46
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$$\cos(Bt+C) = \cos(B(t+3\pi)+C)$$

t=0

$$\cos(C) = \cos(3\pi B+C)$$

$$C = 3\pi B + C + 2\pi k \rightarrow B = \frac{-2}{3}k$$

$$C = -3\pi B - C + 2\pi k \rightarrow B = \frac{2C+2\pi k}{3\pi} = \frac{2}{3} \frac{C}{\pi} + \frac{2}{3}k$$

$$\left. \begin{array}{l} B = \frac{-2}{3}k \\ B = \frac{2}{3} \frac{C}{\pi} + \frac{2}{3}k \end{array} \right\} B = \frac{2}{3} \frac{C}{\pi}$$

① $A \cos(-\frac{1}{2}B+C) + D = -3$

② $-A \sin(-\frac{1}{2}B+C) = 0$

②

1) $B = \frac{2}{3} \rightarrow 1/2 \cdot \frac{2}{3} = \frac{1}{3}$
 $-A \sin(-\frac{1}{3}+C) = 0$

$$C = \frac{1}{3} + \pi k$$

2) $B = -\frac{2}{3} \rightarrow 1/2 \cdot (-\frac{2}{3}) = -\frac{1}{3}$

$$-A \sin(-\frac{1}{3}+C) = 0$$

$$C = -\frac{1}{3} + \pi k$$

① $A \cos(-\frac{1}{3} + \frac{1}{3} + \pi k) + D = -3$

$A \cos(\pi k) + D = -3$
(P/N) $A + D = -3$

$$\begin{array}{|l} A+D=1 \\ D=-1 \\ A=2 \end{array}$$

$A+D=-3$
 $-A+D=1$
 $D=-1$
 $A=-2$