

1992 HI20 1995 HIS

若 $\sin x + \cos x = \frac{1}{5}$ ，且 $0 \leq x \leq \pi$ ，求 $\tan x$ 的值。

If $\sin x + \cos x = \frac{1}{5}$ and $0 \leq x \leq \pi$, find the value of $\tan x$.

1993 HG10

若 $0^\circ \leq \theta \leq 90^\circ$ ，且 $\cos \theta - \sin \theta = \frac{\sqrt{5}}{3}$ ，求 $\cos \theta + \sin \theta$ 的值。

If $0^\circ \leq \theta \leq 90^\circ$ and $\cos \theta - \sin \theta = \frac{\sqrt{5}}{3}$, find the value of $\cos \theta + \sin \theta$.

2007 HI7

已知 $\sin \alpha - \cos \alpha = \frac{1}{5}$ 及 $0^\circ < \alpha < 180^\circ$ 。若 $\tan \alpha = B$ ，求 B 的值。

Given that $\sin \alpha - \cos \alpha = \frac{1}{5}$ and $0^\circ < \alpha < 180^\circ$. If $\tan \alpha = B$, find the value of B .

2007 FI1.4

若 $\cos x + \sin x = \frac{6}{5}$ 及 $d = \tan x + \cot x$ ，求 d 的值。

If $\cos x + \sin x = \frac{6}{5}$ and $d = \tan x + \cot x$, find the value of d .

2014 HG3

若 $0^\circ \leq \theta \leq 180^\circ$ 及 $\cos \theta + \sin \theta = \frac{7}{13}$ ，求 $\cos \theta + \cos^3 \theta + \cos^5 \theta + \dots$ 的值。

If $0^\circ \leq \theta \leq 180^\circ$ and $\cos \theta + \sin \theta = \frac{7}{13}$, find the value of $\cos \theta + \cos^3 \theta + \cos^5 \theta + \dots$

2019 FI2.3

若 $\cos x + \sin x = \frac{2 \times 3}{5}$ 及 $C = (\tan x + \cot x)^{-1}$ ，求 C 的值。

If $\cos x + \sin x = \frac{2 \times 3}{5}$ and $C = (\tan x + \cot x)^{-1}$, determine the value of C .

Answer

1992 HI20 1995 HI5 $-\frac{4}{3}$	1993 HG10 $\frac{\sqrt{13}}{3}$	2007 HI7 $\frac{4}{3}$	2007 FI1.4 $\frac{50}{11}$	2014 HG3 $-\frac{65}{144}$
2019 FI2.3 $\frac{11}{50}$				