1992 HI20 1995 HI5

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

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

1993 HG10

若　$0° \le \theta \le 90°$，且　$\cos\theta - \sin\theta = \dfrac{\sqrt{5}}{3}$　，求　$\cos\theta + \sin\theta$　的值。

If $0° \le \theta \le 90°$ and $\cos\theta - \sin\theta = \dfrac{\sqrt{5}}{3}$, find the value of $\cos\theta + \sin\theta$.

2007 HI7

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

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

2007 FI1.4

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

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

2014 HG3

若　$0° \le \theta \le 180°$　及　$\cos\theta + \sin\theta = \dfrac{7}{13}$，求　$\cos\theta + \cos^3\theta + \cos^5\theta + \cdots$　的值。

If $0° \le \theta \le 180°$ and $\cos\theta + \sin\theta = \dfrac{7}{13}$, find the value of $\cos\theta + \cos^3\theta + \cos^5\theta + \cdots$

Answer

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