



$$OX=OA=x \text{ と } \angle \text{と } \tan 49^\circ = \frac{x}{x+1}$$

$$\tan 49^\circ = \tan(45^\circ + 4^\circ) = \frac{\sin 45^\circ \cos 4^\circ + \cos 45^\circ \sin 4^\circ}{\cos 45^\circ \cos 4^\circ - \sin 45^\circ \sin 4^\circ} = \frac{\tan 45^\circ + \tan 4^\circ}{1 - \tan 45^\circ \tan 4^\circ} = \frac{1 + \tan 4^\circ}{1 - \tan 4^\circ}$$

$$\tan 4^\circ = x \text{ と } \angle \text{と } \tan 49^\circ = \frac{1-x}{1+x}, \quad \frac{x}{x+1} = \frac{1-x}{1+x} \quad x+x^2 = x-x^2+1-x, \quad x = \frac{1-x}{2x}$$

$$\frac{1-0.01746}{2 \times 0.01746} < x < \frac{1-0.01745}{2 \times 0.01745} \quad \frac{0.98254}{0.03492} < x < \frac{0.98255}{0.03490}$$

$$28.1 < \frac{0.98254}{0.03492} < x < \frac{0.98255}{0.03490} < 28.2 \quad \therefore 28x - 111$$

$$\begin{array}{r} 1.00000 \\ - 0.01746 \\ \hline 0.98254 \end{array} \quad \begin{array}{r} 0.01746 \\ \times 2 \\ \hline 0.03492 \end{array} \quad \begin{array}{r} 1.00000 \\ - 0.01745 \\ \hline 0.98255 \end{array} \quad \begin{array}{r} 0.01745 \\ \times 2 \\ \hline 0.03490 \end{array}$$

$\begin{array}{r} 28.1 \\ 3492 \overline{) 98254} \\ \underline{6984} \\ 28414 \\ \underline{27936} \\ 4780 \\ \underline{3492} \\ 1288 \end{array}$	$\begin{array}{r} 28.1 \\ 3490 \overline{) 98255} \\ \underline{6980} \\ 28455 \\ \underline{27920} \\ 5350 \\ \underline{3490} \\ 1860 \end{array}$
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