



2가 바뀌었다

$$(x+y)^2 = 60^2 + 50^2 - 2 \cdot 60 \cdot 50 \cdot \cos 120^\circ$$

$$= 9100$$

$$x^2 + z^2 = 2500$$

$$z^2 + y^2 = 3600$$

$$\left. \begin{array}{l} x^2 + z^2 = 2500 \\ z^2 + y^2 = 3600 \end{array} \right) x^2 - y^2 = -1100$$

$$(x+y)(x+y) = 9100$$

$$(x+y)(x-y) = -1100$$

$$\frac{x+y}{x-y} = -\frac{91}{11}$$

$$11x + 11y = -91x + 91y$$

$$80y = 102x$$

$$y = \frac{102}{80}x$$

$$\left(\frac{102}{80}\right)^2 x^2 = 9100$$

$$x^2 = \frac{80 \times 80 \times 9100}{102^2}$$

$$= \frac{320000}{102^2} = \frac{160000}{91}$$

$$x = \frac{400}{\sqrt{91}}$$



$$\begin{array}{r} 3600 \\ 2500 \\ \hline 6100 \\ 9100 \end{array}$$

120°