$\sin^2\theta = \frac{1-\cos 2\theta}{2}$, $\cos^2\theta = \frac{1+\cos 2\theta}{2}$

$\sin\theta\cos\theta = \frac{1}{2}\sin 2\theta$

$(준식) = a\cdot\frac{1-\cos 2\theta}{2} + \frac{1}{2}(a+b)\sin 2\theta + b^2\cdot\frac{1+\cos 2\theta}{2}$

$= \frac{1}{2}(a+b)\sin 2\theta + \frac{1}{2}(b^2-a)\cos 2\theta + \frac{1}{2}(a+b^2)$

$= \frac{1}{2}\sqrt{(a+b)^2+(b^2-a)^2}\sin(2\theta+\alpha) + \frac{1}{2}(a+b^2)$

$\frac{1}{2}(a+b^2) = 2$

$\frac{1}{2}\sqrt{(a+b)^2+(b^2-a)^2} = \sqrt{5}$

⋮

이와 $\cos\alpha$의 값이 나옴...

$a\sin\theta + b\cos\theta$ 는

$= \sqrt{a^2+b^2}\sin(\theta+\alpha)$