$$tan zd = \frac{2 tan d}{1 - tan^2 d}$$

$$=2$$
 Coold  $-1$ 

$$\cos 2\alpha = 2\cos^2 \alpha - 1 = >$$

$$\cos 2\alpha = 2\cos^2\alpha - 1 \implies 2\cos^2\alpha = 1 + \cos 2\alpha \implies \cos^2\alpha = \frac{1 + \cos 2\alpha}{2}$$

$$\cos\left(2\arccos\frac{1}{4}\right) =$$

$$\left[-\frac{7}{8}\right]$$

$$\frac{1}{2} = 2 \cos^2 \left( \arccos \frac{1}{4} \right) - 1 = 2 \left( \frac{1}{4} \right)^2 - 1 = 2 \cdot \frac{1}{16} - 1 = \frac{1}{8} - 1 = -\frac{7}{8}$$

$$\alpha + \beta = \frac{\pi}{2}$$

$$\cos \beta = \cos \left(\frac{\pi}{2} - \alpha\right) = \sin \alpha = \frac{1}{2}$$

Determina 
$$\cos \beta$$
 e  $\tan \beta$ .

$$\left[\frac{1}{2}; \sqrt{3}\right]$$
 Sin  $\beta = \sqrt{1 - \frac{1}{6}} = \sqrt{1 - \frac{1}{4}} = \sqrt{3}$ 

$$\alpha = \frac{\pi}{6}$$
  $\beta = \frac{\pi}{3}$ 

$$\tan \beta = \frac{\sin \beta}{\cos \beta} = \frac{\sqrt{3}}{2} = \sqrt{3}$$