Sum, Difference, and Cofunctions Identities

①
$$\sin(d \pm \beta) = \sin d \cos \beta \pm \sin \beta \cos d$$

② $\cos(d \pm \beta) = \cos d \cos \beta \mp \sin d \sin \beta$
② $\tan(d \pm \beta) = \frac{\tan d \pm \tan \beta}{1 \mp \tan d + \tan \beta}$

$$y \cdot f(x) \text{ odd}$$

$$f(-x) = -f(x)$$

Expression of the exact value

$$\cos\left(\frac{\pi}{1}\right)\cos\left(\frac{\pi}{4}\right) - \sin\left(\frac{\pi}{1}\right)\sin\left(\frac{\pi}{4}\right)$$

$$\cos\left(\frac{\pi}{12} + \frac{\pi}{4}\right) = \cos\left(\frac{\pi}{12} + \frac{\pi}{4}\right)$$

$$\cos\left(\frac{\pi}{12} + \frac{\pi}{4}\right)$$

$$\cos\left(\frac{\pi}{12} + \frac{\pi}{4}\right)$$

$$= \cos\left(\frac{\pi}{12}\right)$$

$$\cos\left(\frac{\pi}{l_2} + \frac{\pi}{4}\right)$$

$$\cos\left(\frac{\pi}{3}\right)$$

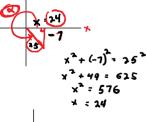
Cos
$$\beta = \frac{1}{17}$$
, d is in Q IV

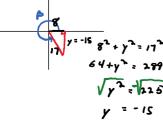
 $\frac{1}{17}$, β in Q IV

Find
$$\sin(\lambda - \beta)$$

$$= \sin \alpha \cos \beta - \frac{1}{2} \cos \alpha$$

$$= \left(-\frac{7}{25}\right) \left(\frac{8}{17}\right) - \left(-\frac{15}{17}\right) \left(\frac{24}{25}\right)$$





cofunction Identities

$$\cos \theta = \frac{\pi}{r} : \sin(90^{\circ})$$

a)
$$\sin(\theta + \pi) = \cos \theta$$

$$\sin\left(\Theta + \frac{\pi}{2}\right) = \sin\Theta \cos \frac{\pi}{2} + \sin\frac{\pi}{2}\cos\Theta$$

$$= \sin\theta \cdot O + (1) \cdot \cos\theta$$

Done

6)
$$\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$$

$$= \frac{\tan \theta + \tan \theta}{1 - \tan \theta + \tan \theta}$$

cos p = ?

sin(x-p)= ?

