WARM UP

$$\frac{1}{4}+\frac{1}{3}=$$

$$\frac{5}{6}+\frac{1}{2}=$$

$$\frac{1}{6}+\frac{3}{4}=$$

$$\frac{5\pi}{6}+\frac{\pi}{2}=$$

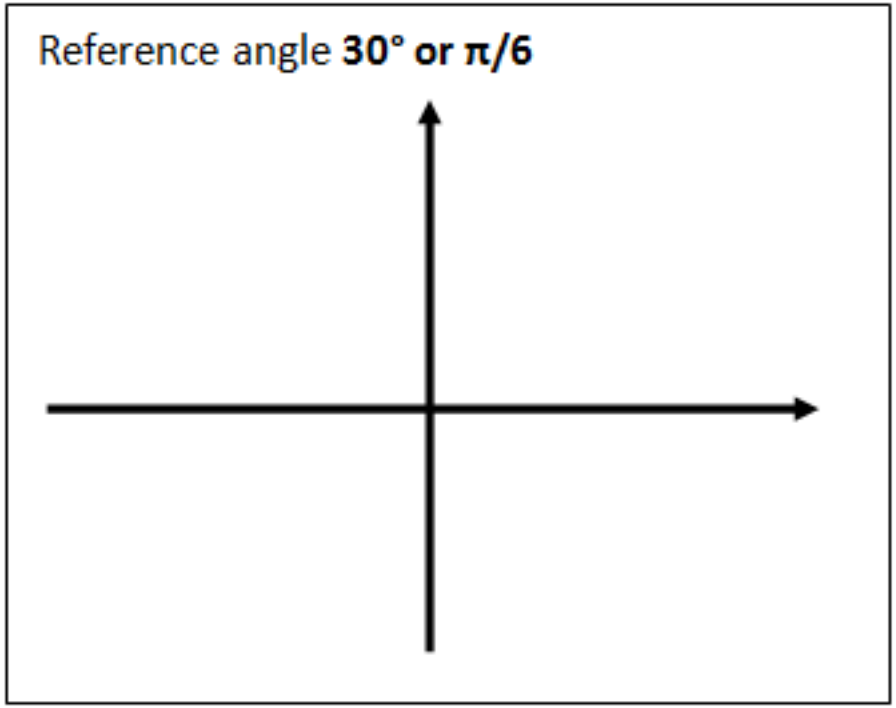
$$\frac{\pi}{4}+\frac{\pi}{3}=$$

Homework check

Homework check

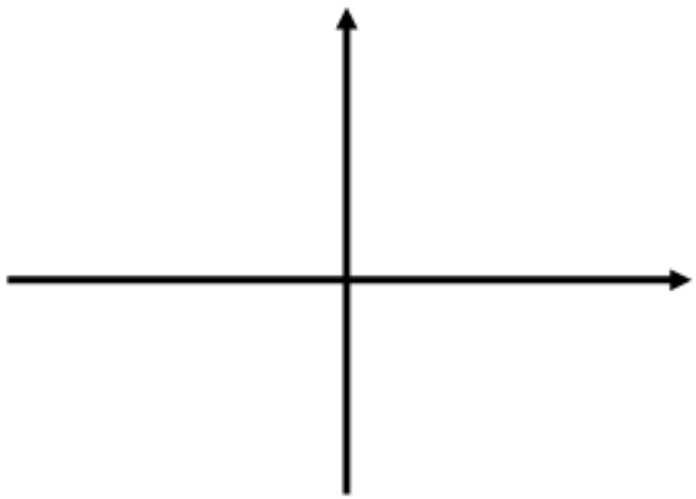
Homework check

Special Angles- Review

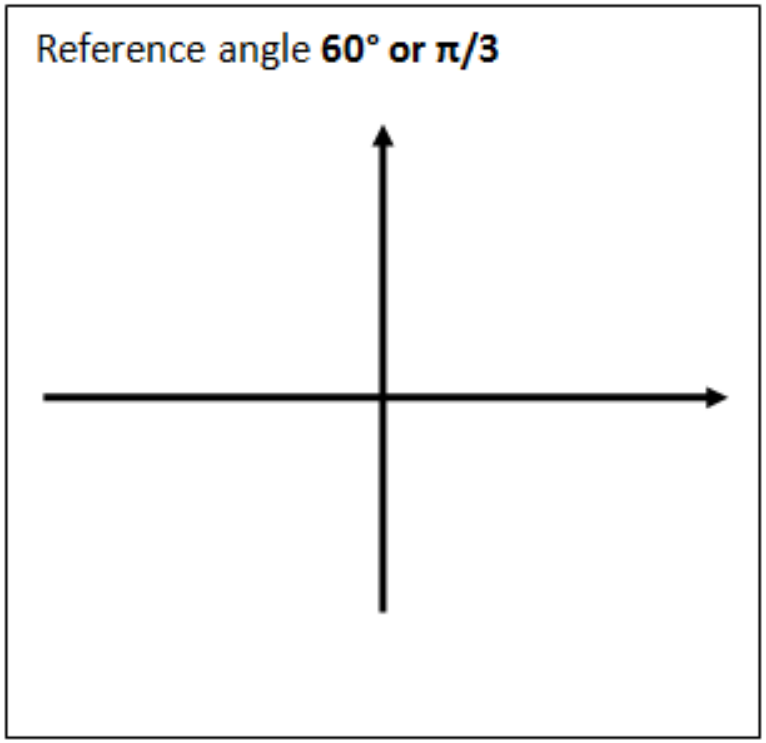


Special Angles- Review

Reference angle **45° or π/4**



Special Angles- Review



Addition and Subtraction Identities

$$\sin\frac{17\pi}{12} = \sin\left(\frac{2\pi}{3} + \frac{3\pi}{4}\right)$$

$$= \sin\frac{2\pi}{3}\cos\frac{3\pi}{4} + \cos\frac{2\pi}{3}\sin\frac{3\pi}{4}$$

$$= \frac{\sqrt{3}}{2}\cdot\left(-\frac{\sqrt{2}}{2}\right) + \left(-\frac{1}{2}\right)\cdot\frac{\sqrt{2}}{2}$$

$$= -\frac{\sqrt{2}\left(\sqrt{3}+1\right)}{4}$$

Addition and Subtraction Identities

$$\cos\frac{17\pi}{12} = \cos\left(\frac{2\pi}{3} + \frac{3\pi}{4}\right)$$

$$= \cos\frac{2\pi}{3}\cos\frac{3\pi}{4} - \sin\frac{2\pi}{3}\sin\frac{3\pi}{4}$$

$$= \left(-\frac{1}{2}\right)\cdot\left(-\frac{\sqrt{2}}{2}\right) - \frac{\sqrt{3}}{2}\cdot\frac{\sqrt{2}}{2}$$

$$= \frac{\sqrt{2}\left(1 - \sqrt{3}\right)}{4}$$

Addition and Subtraction Identities

$$\sin\frac{7\pi}{12} =$$

Addition and Subtraction Identities

$$\cos\frac{5\pi}{12} =$$

Addition and Subtraction Identities

$$\tan\frac{11\pi}{12} =$$

Addition and Subtraction Identities

$$\tan\frac{11\pi}{12} =$$

Daily Practice

- P.587 #1-9