

$$\begin{aligned}
 1. \sin \frac{\pi}{3} \sin \left(-\frac{\pi}{4} \right) + \cos \left(-\frac{\pi}{4} \right) \cos \frac{\pi}{3} &= \frac{\sqrt{3}}{2} \cdot \left(-\frac{\sqrt{2}}{2} \right) + \frac{\sqrt{2}}{2} \cdot \frac{1}{2} \\
 &= -\frac{\sqrt{6}}{4} + \frac{\sqrt{2}}{4} \\
 &= \frac{\sqrt{2} - \sqrt{6}}{4}
 \end{aligned}$$

$$\begin{aligned}
 2. \cos 70^\circ \cos 20^\circ + \sin 70^\circ \sin 20^\circ &= \cos(\quad^\circ + \quad^\circ) \\
 &= \cos \quad^\circ \\
 &=
 \end{aligned}$$

$$\begin{aligned}
 3. \sin \frac{\pi}{12} \cos \frac{5\pi}{12} - \sin \frac{5\pi}{12} \cos \frac{\pi}{12} &= \sin \frac{\pi}{12} \cos \frac{5\pi}{12} - \cos \frac{\pi}{12} \sin \frac{5\pi}{12} \\
 &= \sin \left(-\frac{\pi}{12} - \frac{5\pi}{12} \right) \\
 &= -\sin \frac{\pi}{2} \\
 &= -1
 \end{aligned}$$

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$$\begin{aligned}
 4. \frac{\tan 20^\circ + \tan 25^\circ}{1 - \tan 20^\circ \tan 25^\circ} &= \tan(\quad^\circ + \quad^\circ) \\
 &= \tan \quad^\circ \\
 &=
 \end{aligned}$$