

Find the exact value of each expression:

$$\sin\left(2 \sin^{-1} \frac{3}{5}\right)$$

$$\sin\left(2 \cos^{-1} \frac{5}{13}\right)$$

Find the exact value of each expression:

$$\cos\left(2 \sin^{-1} \frac{3}{5}\right)$$

$$\cos\left(2 \cos^{-1} \frac{4}{5}\right)$$

Find the exact value of each expression:

$$\sin\left(\frac{1}{2}\sin^{-1}\frac{\sqrt{3}}{2}\right)$$

Find the exact value of each expression:

$$\cos\left(\frac{1}{2}\cos^{-1}\frac{4}{5}\right)$$