

Find the exact value of each expression:

$$\sin\left(\sin^{-1}\frac{3}{5} + \cos^{-1}\frac{5}{13}\right)$$

Find the exact value of each expression:

$$\cos\left(\tan^{-1}\frac{4}{3} + \cos^{-1}\frac{5}{13}\right)$$

Find the exact value of each expression:

$$\sin\left(\cos^{-1}\frac{5}{13} - \cos^{-1}\frac{4}{5}\right)$$

Find the exact value of each expression:

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