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Trigonometry Worksheet: Addition Formula (1)

1. Use the fact that $\frac{\pi}{3} - \frac{\pi}{4} = \frac{\pi}{12}$ to find $\sin\left(\frac{\pi}{12}\right)$.

2. x is a third quarter angle such that $\sin(x) = \frac{-1}{5}$ and y is a second quarter angle such that $\cos(y) = \frac{-1}{3}$. Find $\sin(x + y)$.