5.4 Sum and Difference Formulas

Name:

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P 7. Find the exact value of

(a) $\cos\left(\frac{7\pi}{12}\right)$

(b) $\cos \frac{\pi}{4} + \cos \frac{\pi}{3}$

P 43. Find the exact value of $\sin(u+v)$ given that $\sin u = \frac{5}{13}$ and $\cos v = \frac{-3}{5}$.

P 53. Find the exact value of $\tan(u-v)$ given that $\sin u = \frac{-7}{25}$ and $\cos v = \frac{-4}{5}$. (Both u and v are in Quadrant *III*.)

P 75. Find all solutions to

 $\sin(x+\pi) - \sin x + 1 - 0$

on the interval $[0, 2\pi)$.

P 83. Find all solutions to

$$\sin\left(x+\frac{\pi}{2}\right) - \cos^2 x = 0.$$