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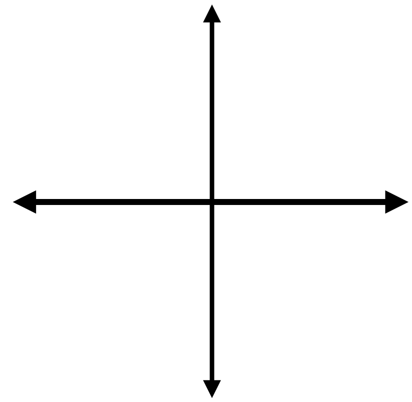
Using Sum and Difference Formulas

Name ____________________

Date ____________ Period ______

Given $\sin \alpha = \frac{4}{5}$; α lies in quadrant 2 and $\cos \beta = \frac{5}{13}$; β lies in quadrant 4

Find: $\cos \alpha$; $\sin \beta$; $\sin(\alpha + \beta)$; $\cos(\alpha + \beta)$



Given $\sin \alpha = \frac{4}{5}$; α lies in quadrant 2 and $\cos \beta = \frac{5}{13}$; β lies in quadrant 4

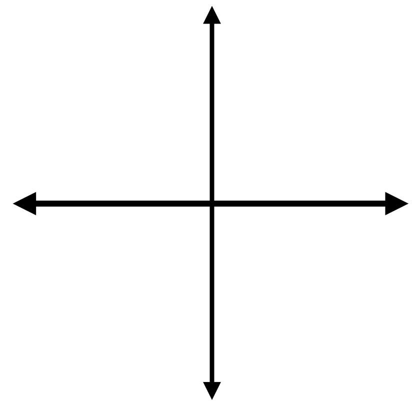
Find: $\cos \alpha$; $\sin \beta$; $\sin(\alpha + \beta)$; $\cos(\alpha + \beta)$

$\sin(\alpha + \beta)$

$\cos(\alpha + \beta)$

Given sin $\alpha = -\frac{3}{5}$; α lies in quadrant 3 and cos $\beta = \frac{12}{13}$; β lies in quadrant 1

Find: cos α; sin β; sin $(\alpha - \beta)$; cos $(\alpha - \beta)$



Given sin $\alpha = -\frac{3}{5}$; α lies in quadrant 3 and cos $\beta = \frac{12}{13}$; β lies in quadrant 1

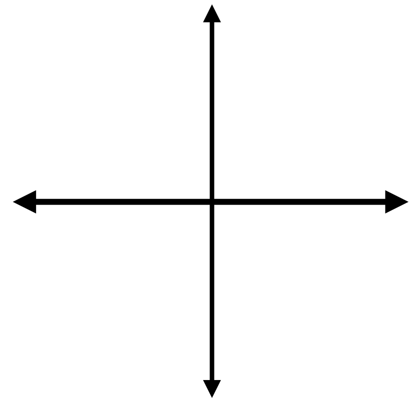
Find: cos α; sin β; sin $(\alpha - \beta)$; cos $(\alpha - \beta)$

sin $(\alpha - \beta)$

cos $(\alpha - \beta)$

Given $\tan \alpha = -\frac{4}{3}$; α lies in quadrant 2 and $\cos \beta = \frac{1}{2}$; β lies in quadrant 1

Find: $\sin(\alpha + \beta)$; $\sin(\alpha - \beta)$; $\cos(\alpha + \beta)$; $\tan(\alpha + \beta)$



Given $\tan \alpha = -\frac{4}{3}$; α lies in quadrant 2 and $\cos \beta = \frac{1}{2}$; β lies in quadrant 1

Find: $\sin(\alpha + \beta)$; $\sin(\alpha - \beta)$; $\cos(\alpha + \beta)$; $\tan(\alpha + \beta)$

$\sin(\alpha + \beta)$

$\sin(\alpha - \beta)$

Given $\tan \alpha = -\frac{4}{3}$; α lies in quadrant 2 and $\cos \beta = \frac{1}{2}$; β lies in quadrant 1

Find: $\sin(\alpha + \beta)$; $\sin(\alpha - \beta)$; $\cos(\alpha + \beta)$; $\tan(\alpha + \beta)$

$\cos(\alpha + \beta)$

Given $\tan \alpha = -\frac{4}{3}$; α lies in quadrant 2 and $\cos \beta = \frac{1}{2}$; β lies in quadrant 1

Find: $\sin(\alpha + \beta)$; $\sin(\alpha - \beta)$; $\cos(\alpha + \beta)$; $\tan(\alpha + \beta)$

$\tan(\alpha + \beta)$