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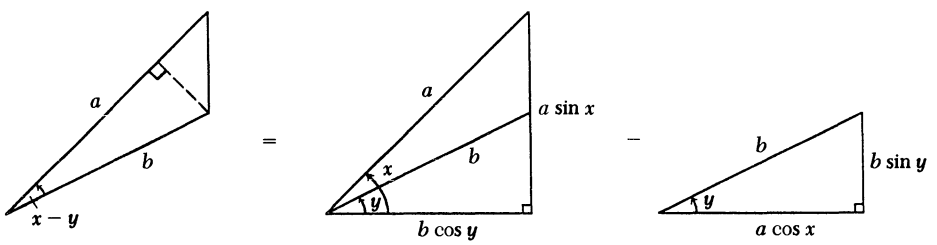
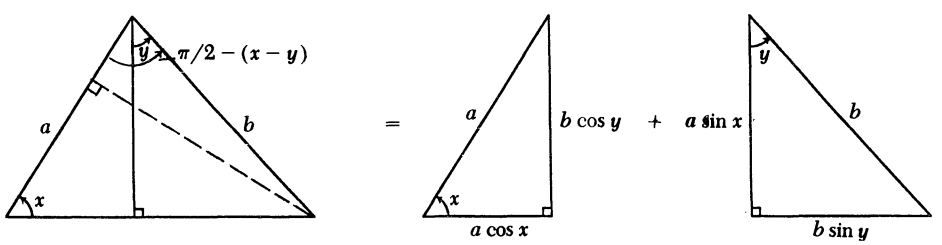
Proof without Words: Area and Difference Formulas



$$\sin(x-y) = \sin x \cos y - \cos x \sin y$$



$$\cos(x-y) = \cos x \cos y + \sin x \sin y$$

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