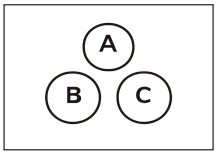
34 Formulas and Identities D
Half Angle Formulas

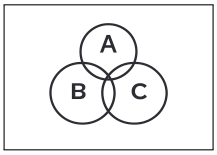


$\theta = 45°$

$\sin^2(45°) = 1 - \cos(90°)/2$

$\sin^2(45°) = 1 - 0/2$

$\sin^2(45°) = 1/2$



$\sin^2(\theta) = 1 - \cos(2\theta)/2$

$\theta = 75°$

$\sin^2(\theta) = ?$

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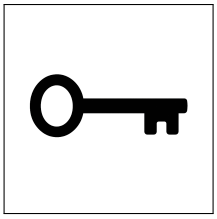

$\theta = 75°$

$\sin^2(\theta) = 1 - \cos(2\theta)/2$

$\sin^2(75°) = 1 - \cos(150°)/2$

$\sin^2(75°) = 1 - (-\sqrt{3}/2/2$

$\sin^2(75°) = 1 + \sqrt{3}/2/2$

$\sin^2(75°) = 2 + \sqrt{3}/2/2$

$\sin^2(75°) = 2 + \sqrt{3}/4$