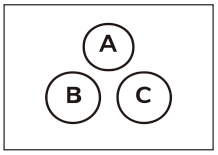
34 Formulas and Identities B
Half Angle Formulas



$\theta = 240°$

$\cos(\theta/2) = \pm\sqrt{(1+\cos(\theta))/2}$

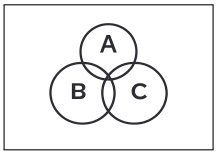
$\cos(120°) = \pm\sqrt{(1+(-1/2))/2}$

$\cos(120°) = \pm\sqrt{(1/2)/2}$

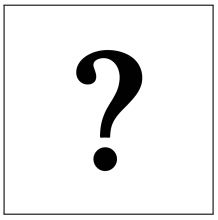
$\cos(120°) = \pm\sqrt{1/4}$

$\cos(120°) = \pm 1/2$

$\cos(120°) = -1/2$



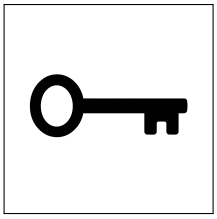
$\cos(\theta/2) = \pm\sqrt{(1+\cos(\theta))/2}$



$\theta = 120°$

$\cos(\theta/2) = ?$

34 Formulas and Identities B
Half Angle Formulas



$$\theta = 120°$$
$$\cos(\theta/2) = \pm\sqrt{(1+\cos(\theta))/2}$$
$$\cos(60°) = \pm\sqrt{(1+\cos(120°))/2}$$
$$\cos(60°) = \pm\sqrt{(1+(-1/2))/2}$$
$$\cos(60°) = \pm\sqrt{(1/2)/2}$$
$$\cos(60°) = \pm\sqrt{1/4}$$
$$\cos(60°) = \pm 1/2$$
$$\cos(60°) = 1/2$$