$$\cos\left(\frac{\Theta}{2}\right) = \pm \sqrt{1 + \cos\left(\frac{\Theta}{2}\right)}$$

75° is, a Quadrant 1 angle that is positive

$$Cos(150^{\circ}) = \sqrt{1 + cos(150^{\circ})}$$

$$2(1)=2$$
 $4\sqrt{2(1--1)^{\frac{3}{2}/2}}$
 $2(-\sqrt{3})-\sqrt{3}$

$$\cos\left(\frac{150^{\circ}}{2}\right) = \sqrt{\frac{2-\sqrt{3}}{2}}$$