Question 27687

Half-angle formula for sine function is $\sin(\frac{x}{2})=\sqrt{\frac{(1-\cos x)}{2}}$ for $0\le x\le\pi$. One knows that table value of $\cos 30=\cos\frac{\pi}{6}=\frac{\sqrt{3}}{2}$. Hence,

$\sin(15)=\sqrt{\frac{(1-\frac{\sqrt{3}}{2})}{2}}=\sqrt{\frac{2-\sqrt{3}}{4}}\approx 0.26$.