

You may have mistakenly used a $45^\circ - 45^\circ - 90^\circ$ triangle and found $\cot 45^\circ$.

Refer to the $30^\circ - 60^\circ - 90^\circ$ triangle. From there you can see that $\cos 30^\circ = \frac{\sqrt{3}}{2}$. It follows that $x = 30^\circ$.