Trigonometric Relations

1. Find the value of $\sin 60^\circ - \dfrac{\cos 30^\circ}{\sin 30^\circ}$

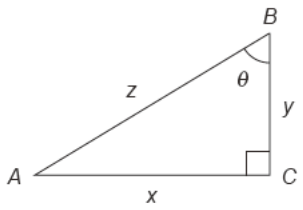
   A. $\sqrt{3}$

   B. $-\sqrt{3}$

   C. $\dfrac{\sqrt{3}}{2}$

   D. $-\dfrac{\sqrt{3}}{2}$

2. Find $\dfrac{1}{\cos\theta}$



   A. $\dfrac{z}{y}$

   B. $\dfrac{x}{z}$

   C. $\dfrac{y}{z}$

   D. $\dfrac{z}{x}$

3. Find the value of $\sin 45^\circ \cos 45^\circ + \tan 45^\circ - \cos 45^\circ$.

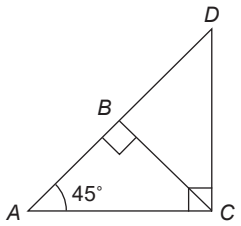
   A. $\dfrac{1}{2}$

   B. $\sqrt{2}$

   C. $\dfrac{3-\sqrt{2}}{2}$

   D. $\dfrac{1+\sqrt{2}}{2}$

4. In the figure, if AB is $2\sqrt{3}$, BD is



A. $\sqrt{3}$

B. $2\sqrt{3}$

C. 2

D. 3