Name: _____

A2.A.56: Determining Trigonometric Functions 1: Know the exact and approximate values of the sine, cosine, and tangent of 0º, 30º, 45º, 60º, 90º, 180º, and 270º angles

1 Which is equal in value to $\sin 180°$?
1) $\tan 45°$
2) $\cos 90°$
3) $\cos 0°$
4) $\tan 90°$

2 The value of $(\sin 60°)(\cos 60°)$ is
1) $\frac{3}{4}$
2) $\frac{\sqrt{2}}{4}$
3) $\frac{\sqrt{3}}{3}$
4) $\frac{\sqrt{3}}{4}$

3 Which is the value of $\cos(-240°)$?
1) $-\frac{1}{2}$
2) $\frac{3}{2}$
3) $\frac{1}{2}$
4) $-\frac{3}{2}$

4 What is the value of $\sin(-240°)$?
1) $\frac{1}{2}$
2) $-\frac{1}{2}$
3) $\frac{\sqrt{3}}{2}$
4) $-\frac{\sqrt{3}}{2}$

5 What is the value of $\cos(-120°)$?
1) $\frac{1}{2}$
2) $-\frac{1}{2}$
3) $\frac{\sqrt{3}}{2}$
4) $-\frac{\sqrt{3}}{2}$

6 Find the value of $\sin 135°$ in radical form.

7 Find the value of $\tan 120°$.

8 Find the value of $\tan(-135°)$.

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Answer Section

1 ANS: 2 PTS: 2 REF: 069021siii
2 ANS: 4 PTS: 1 REF: 089017siii
3 ANS: 1 PTS: 2 REF: 088527siii
4 ANS: 3 PTS: 2 REF: 019027siii
5 ANS: 2 PTS: 2 REF: 069434siii
6 ANS:
$\frac{1}{\sqrt{2}}$

PTS: 2 REF: 089806siii
7 ANS:
$-\sqrt{3}$

PTS: 2 REF: 018517siii
8 ANS:
1

PTS: 2 REF: 068709siii