

Name: _____
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Date _____
Algebra II

Double Angle Identities

1. The expression $\frac{\sin 2A}{2 \cos A}$ is equivalent to

- (1) $\cos A$ (2) $\tan A$ (3) $\sin A$ (4) $\frac{1}{2} \sin A$

2. The expression $\frac{2 \sin A}{\sin 2A}$ is equivalent to:

- (1) $\tan A$ (2) $\sec A$ (3) 1 (4) -1

3. The expression $\frac{\sin 2\theta}{\sin^2 \theta}$ is equivalent to

- (1) $\frac{2}{\sin \theta}$ (3) $2 \cot \theta$
(2) $2 \cos \theta$ (4) $2 \tan \theta$

4. The expression $\frac{2 \sin 2A}{2 \cos^2 A}$ is equivalent to:

- (1) $2 \csc A$ (2) $2 \tan A$ (3) 1 (4) -1

5. The expression $\frac{4 \cos A}{\sin 2A}$ is equivalent to:

- (1) $2 \sin A$ (2) $2 \csc A$ (3) $4 \tan A$ (4) $\frac{2}{\cos A}$

6. The expression $\cos^2 \theta - \cos 2\theta$ is equivalent to

- (1) $\sin^2 \theta$ (2) $-\sin^2 \theta$ (3) $\cos^2 \theta + 1$ (4) $-\cos^2 \theta - 1$

7. The expression $\frac{1 + \cos 2A}{\sin 2A}$ is equivalent to

- 1) $\cot A$
2) $\tan A$
3) $\sec A$
4) $1 + \cot 2A$

8. The expression $\frac{\cos 2A}{\sin^2 A - \cos^2 A}$ is equivalent to:

- (1) $\tan A$ (2) $\sec A$ (3) 1 (4) -1