## 10-3 Practice

## Sum and Difference Identities

Find the exact value of each expression.

1. cos 75°

2. cos 375°.

3. sin (-165°)

4. sin (-105°)

5. sin 150°

6. cos 240°

7. sin 225°

8.  $\sin (-75^{\circ})$ 

9. sin 195°

Verify that each equation is an identity.

10. 
$$\cos (180^{\circ} - \theta) = -\cos \theta$$

11. 
$$\sin (360^\circ + \theta) = \sin \theta$$

12. 
$$\sin (45^{\circ} + \theta) - \sin (45^{\circ} - \theta) = \sqrt{2} \sin \theta$$

13. 
$$\cos\left(x-\frac{\pi}{6}\right)+\sin\left(x-\frac{\pi}{3}\right)=\sin x$$

- 14. SOLAR ENERGY On March 21, the maximum amount of solar energy that falls on a square foot of ground at a certain location is given by E sin (90° φ), where φ is the latitude of the location and E is a constant. Use the difference of angles formula to find the amount of solar energy, in terms of cos φ, for a location that has a latitude of φ.
- 15. ELECTRICITY In a certain circuit carrying alternating current, the formula c = 2 sin (120t) can be used to find the current c in amperes after t seconds.
  - a. Rewrite the formula using the sum of two angles.
  - b. Use the sum of angles formula to find the exact current at t = 1 second,

# **Practice A 14 4 Sum And Difference**

**Deok-Hoon Yoon** 

<b>Practice</b>	$\mathbf{A}$	<b>14</b>	4	Sum	And	<b>Difference:</b>
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