Section 7.4

1 $\sin 160^\circ = \sin(160^\circ) = 0.34202$

$= 0.3420$

2 $\cos 205 = \cos(205) = -0.90630$

$= -0.9063$

$= -0.9063$

3 $\cos 312^\circ = \cos(312^\circ) = 0.6913$

$= 0.6691$

4 $\sin 132^\circ = \sin(132^\circ) = 0.7431$

$= 0.7431$

5 $\cos 224^\circ = \cos(180 - 224)$

$= -\cos 44$

6 $\sin 145^\circ = \sin(180 - 145)$

$= \sin 35$

7 $\sin 320^\circ = \sin(320 - 180)$

$= \sin 140$

8 $\cos 170^\circ = \sin(170 - 180)$

$= -\cos 10$

Section 7.4

9 $\cos 150^\circ = \cos(150^\circ) = -0.866\,2540$

$= \frac{-\sqrt{3}}{2}$

10 $\sin(-240^\circ) = \sin(-240^\circ) = \frac{\sqrt{3}}{2}$

$= \frac{\sqrt{3}}{2}$

11 $\sin 315 = \frac{-\sqrt{2}}{2} = -0.70710$

$= \frac{-\sqrt{2}}{2}$

12 $\cos(-30) = \cos(30^\circ)$

$\cos 30 = 0.86602$

$= \frac{\sqrt{3}}{2}$

13 $\sin \frac{\pi}{4} = 0.70710$

$= \frac{\sqrt{2}}{2}$

14 $\cos\left(\frac{-5\pi}{6}\right) = -0.86602 = \cos\left(\frac{5\pi}{6}\right)$

$= \frac{-\sqrt{3}}{2}$

15 $\sin \frac{3\pi}{4} = \cos\left(\frac{\pi}{2} - \frac{3\pi}{4}\right) = \frac{\sqrt{2}}{2}$

16 $\cos \frac{-\pi}{6} = -\frac{x}{6} \cos x = \cos\left(\frac{\pi}{6}\right) = \frac{\sqrt{3}}{2}$