# Study Guide Side 2

(1) $\frac{\pi}{6}$ (2) 0 (3) $\frac{\pi}{3}$ (4) $\frac{\pi}{2}$ (5) $\frac{\pi}{6}$ (6) $-\frac{\pi}{4}$

(7) $\frac{5\pi}{6}$ (8) $-\frac{\pi}{4}$ (9) $-\frac{\pi}{3}$ (10) $\frac{\pi}{3}$ (11) $\frac{2\pi}{3}$ (12) $\frac{\pi}{4}$

(13) $\frac{\pi}{3}$ (14) $-\frac{\pi}{6}$ (15) 0 (16) 0

(49) $\frac{3}{5}$ (50) $\frac{5}{3}$ (51) $\frac{\sqrt{5}}{5}$ (52) $\frac{2\sqrt{5}}{5}$ (53) $\frac{12}{13}$

(54) $-\frac{13}{5}$ (55) $\frac{\sqrt{34}}{5}$ (56) $\frac{-3\sqrt{7}}{7}$ (57) $\frac{\sqrt{5}}{3}$ (58) $\frac{8}{5}$

# Study Guide Side 3

(15) 107.2253 ft (19)(c) 19.8747 ft

# Study Guide side 4

(63) $y = 2\cos x + 1$ (64) $y = 2\cos x - 1$

(65) $y = 4\cos(x - \frac{\pi}{2}) + 4$ (66) $y = \cos(x - \pi) - 3$

(67) $y = 3\sin(2x - \pi)$ (68) $y = 2\sin(\frac{x}{2})$

(69) $y = 2\sin(x + \frac{\pi}{4})$ (70) $y = 2\sin(\frac{\pi x}{2} + \frac{\pi}{2})$

# Study Guide Side 1

(11) Q3 (12) Q1 (13) Q2 (14) Q4

(59) $\cos\theta = \frac{4}{5}$ (60) $\sin\theta = \frac{\sqrt{10}}{10}$ (61) $\sec\theta = -\frac{\sqrt{13}}{2}$

(62) $\cot\theta = -\sqrt{3}$ (63) $\sec\theta = \frac{8}{5}$ (64) $\tan\theta = \frac{\sqrt{65}}{4}$

# Study Guide Side 2

(81) (a) ~~60°~~, $30°, 150°$
$\pi/6, 5\pi/6$

(b) $210°, 330°$
$\frac{7\pi}{6}, \frac{11\pi}{6}$

(82) (a) $45°, 315°$
$\frac{\pi}{4}, \frac{7\pi}{4}$

(b) $135°, 225°$
$\frac{3\pi}{4}, \frac{5\pi}{4}$

(83) (a) $60°, 120°$
$\frac{\pi}{3}, \frac{2\pi}{3}$

(b) $135°, 315°$
$\frac{3\pi}{4}, \frac{7\pi}{4}$

(#84-86) not shown