

MA 15400, Fall 2014

Exam 2 Answers

Question	Form 01 - Green		Form 02 – Orange	
1.	$5\sqrt{3}$	E	$10\sqrt{3}$	C
2.	21.1	B	23.6	E
3.	$c = a \sec \beta$	C	$c = a \csc \alpha$	B
4.	742 feet	A	836 feet	A
5.	22.1°	C	21.7°	B
6.	168 miles	D	175 miles	C
7.	$S69^\circ W$	C	$S66^\circ W$	D
8.	$\theta = \frac{\pi}{3} + \pi n$	A	$\theta = \frac{2\pi}{3} + \pi n$	B
9.	$\theta = \frac{\pi}{6} + \pi n, \frac{\pi}{3} + \pi n$	B	$\theta = \frac{\pi}{6} + \pi n, \frac{5\pi}{6} + \pi n$	A
10.	$\theta = \frac{3\pi}{8}, \frac{7\pi}{8}, \frac{11\pi}{8}, \frac{15\pi}{8}$	D	$\theta = \frac{\pi}{8}, \frac{5\pi}{8}, \frac{9\pi}{8}, \frac{13\pi}{8}$	C
11.	$\theta = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{\pi}{2}$	C	$\theta = \frac{7\pi}{6}, \frac{11\pi}{6}, \frac{3\pi}{2}$	D
12.	$\sin(20^\circ)$	B	$\sin(50^\circ)$	C
13.	$t = 0, \pi, \frac{\pi}{3}, \frac{5\pi}{3}$	B	$t = 0, \pi, \frac{2\pi}{3}, \frac{4\pi}{3}$	A
14.	$\frac{3}{5}$	D	$\frac{3}{5}$	C
15.	$\frac{11}{61}$	E	$\frac{11}{61}$	E