

MA 15400, Spring 2013

Exam 2 Answers

	Form A, Green		Form B, Orange	
1.	$\cos(73^\circ)$	A	$\cos(25^\circ)$	D
2.	$x = \frac{\pi}{4} + \pi n, \frac{7\pi}{12} + \pi n$	D	$x = \frac{\pi}{4} + \pi n, \frac{5\pi}{12} + \pi n$	C
3.	$\frac{\pi}{6}, \frac{5\pi}{6}, \frac{\pi}{2}$	B	$\frac{7\pi}{6}, \frac{11\pi}{6}, \frac{3\pi}{2}$	D
4.	99 miles	C	113 miles	A
5.	S67°E	A	S63°E	B
6.	No, it is not correct.	B	No, it is not correct.	B
7.	$\frac{7\pi}{18}, \frac{19\pi}{18}, \frac{31\pi}{18}$	C	$\frac{4\pi}{9}, \frac{10\pi}{9}, \frac{16\pi}{9}$	A
8.	$\frac{-12 + 3\sqrt{55}}{40}$	A	$\frac{-12 - 3\sqrt{55}}{40}$	C
9.	2.2 feet	B	1.6 feet	D
10.	$\tan(2\theta) = \frac{12}{5}$	D	$\tan(2\theta) = \frac{20}{21}$	A
11.	$t = 0, \pi, \frac{2\pi}{3}, \frac{4\pi}{3}$	B	$t = 0, \pi, \frac{\pi}{3}, \frac{5\pi}{3}$	C
12.	$\theta = 20^\circ, 70^\circ$	D	$\theta = 21^\circ, 69^\circ$	B
13.	$\frac{\sqrt{3}}{2}$	C	$\frac{1}{2}$	D
14.	$\frac{1}{\sqrt{1+x^2}}$	D	$\frac{x}{\sqrt{1+x^2}}$	A
15.	3.96, 5.46	A	3.96, 5.46	B