

MA 154, Spring 2006

Exam 2

	Answer	Form A, Green	Form B, Orange
1.	$\cos(42^\circ)$	D	B
2.	Only I and III are true	A	C
3.	$\frac{1}{\sqrt{2}}(\sin \theta - \cos \theta)$	B	D
4.	$3\sin\left(\frac{\pi}{2}x + \frac{3\pi}{2}\right)$	C	A
5.	$y = 2\sin\left(\frac{\pi}{3}x + \pi\right)$	D	B
6.	$c = \frac{14}{\sqrt{3}}, \text{ or } c = \frac{14\sqrt{3}}{3}$	E	E
7.	$x = \frac{\pi}{3}, \pi, \frac{5\pi}{3}$	B	D
8.	$\beta = \frac{5\pi}{6} + 2\pi n, \frac{7\pi}{6} + 2\pi n$	A	C
9.	$\theta = \frac{\pi}{6} + \frac{\pi}{2}n$	C	A
10.	$\frac{253}{204}$	B	D
11.	$c = \frac{b}{\sin \beta}$	B	D
12.	$\frac{4\sqrt{6}}{25}$	C	A
13.	73.2 meters	D	B
14.	$\theta = \frac{\pi}{3}, \frac{5\pi}{3}, \pi$	D	B
15.	38.5 feet	C	A