

MA 154, Fall 2006
Exam 2 Answers

Question	Answer	Form A	Form B
1.	122.3	A	B
2.	$a = b \cot \beta$	E	A
3.	$\cos(62^\circ)$	B	A
4.	$\theta = \pi + 12\pi n, 11\pi + 12\pi n$	D	C
5.	422 feet	C	B
6.	$\frac{-1}{\sqrt{65}}$	B	C
7.	S 65° W	C	D
8.	$\frac{1}{2}(\sqrt{3} \sin \theta + \cos \theta)$	D	B
9.	$\frac{\sqrt{63}}{31}$	C	D
10.	$\frac{\pi}{2}, \frac{3\pi}{2}, \frac{7\pi}{6}, \frac{11\pi}{6}$	A	C
11.	$\frac{\pi}{3}$	E	E
12.	$\frac{\sqrt{55}}{8}$	B	A
13.	$\frac{x}{\sqrt{x^2 + 1}}$	D	B
14.	$x = 0, (1 \text{ solution})$	A	E
15.	31.9 feet	A	D