

# MA 15400, Spring 2013

## Exam 3 Answers

Question	Answer	Form A	Form B
1.	$932.5\text{ cm}$	A	A
2.	Angle $\alpha$ , Law of Sines	C	C
3.	$\gamma = 80.3^\circ$	D	D
4.	257 yards	E	E
5.	$23^\circ$	B	B
6.	$386\text{ miles per hour}$	D	D
7.	$\langle -7, -31 \rangle$	C	C
8.	$\ a\  = 7.8, \theta = 219.8^\circ$	A	A
9.	$\ r\  = 9.7\text{ lb}$	B	B
10.	Horizontal Component: $22.9\text{ ft/sec}$ Vertical Component: $34.0\text{ ft/sec}$	D	D
11.	$9i - 21j$	A	A
12.	$G = \langle 6, -7 \rangle$	C	C
13.	$109.4^\circ$	B	B
14.	$m = 2$	A	A
15.	$\theta = 129.9^\circ$	D	D