

# MA 15400

Fall 2012

## Exam 3 Answers

	Answer	Form A Green	Form B Orange
1.	$\langle -12, 14 \rangle$	C	A
2.	$x = 1.5708, 4.7124$	E	E
3.	$t = 0.4636, -1.3734$	B	C
4.	<i>2.55 miles</i> (Too close to 2.56, sorry)	A or E	D or E
5.	<i>0.87 miles</i>	B	C
6.	<i>234 yds.</i>	C	A
7.	Side $a$ , Law of Cosines	B	C
8.	$\gamma = 6.1^\circ, \alpha = 30.9^\circ, b = 152.4$	A	D
9.	$27.9^\circ$	C	A
10.	<i>63.7 miles</i>	A	D
11.	$\ a\  \approx 8.2, \theta \approx 166.0^\circ$	D	B
12.	$\ r\  \approx 9.7 \text{ lb.}$	C	A
13.	63.9, 54.0	D	B
14.	$\frac{30}{13}i - \frac{72}{13}j$	B	C
15.	<i>409 mph, 96°</i>	D	B