

# MA 15400, Fall 2013

## Exam 2 Answers

	Form A Green		Form B Orange	
1.	D	$\cos(61^\circ)$	B	$\cos(35^\circ)$
2.	E	None of the above statements are true	E	None of the above statements are true
3.	A	9.8	C	8.5
4.	D	<i>See Graph</i>	A	<i>See Graph</i>
5.	B	$c = a \sec \beta$	D	$c = b \csc \beta$
6.	A	365 ft.	B	246 ft.
7.	C	12.8 ft.	A	14.4 ft.
8.	B	$\theta = \frac{\pi}{12} + \pi n, \frac{11\pi}{12} + \pi n$	D	$\theta = \frac{\pi}{12} + \pi n, \frac{11\pi}{12} + \pi n$
9.	A	$\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$	B	$\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$
10.	D	2.5 hours	C	2.5 hours
11.	B	273.1°	B	273.1°
12.	C	$\frac{\pi}{6}, \frac{5\pi}{6}, \frac{3\pi}{2}$	D	$\frac{7\pi}{6}, \frac{11\pi}{6}, \frac{\pi}{2}$
13.	A	$\frac{3\sqrt{13} + 24}{35}$	C	$\frac{3\sqrt{13} - 24}{35}$
14.	D	$0, \pi, \frac{2\pi}{3}, \frac{4\pi}{3}$	A	$0, \pi, \frac{2\pi}{3}, \frac{4\pi}{3}$
15.	C	$\frac{41}{841}$	D	$\frac{41}{841}$