

MA 15400, Spring 2012

Exam 2 Answers

Question	Both Forms Letter	Both Forms Answer
1.	B	Period = 4π , Phase Shift = $\frac{2\pi}{3}$
2.	D	See Exam
3.	A	Between 7°C and 10°C and rising
4.	B	14.0°
5.	D	894 miles
6.	A	303°
7.	D	$c = a \sec \beta$
8.	C	46.6 km
9.	E	$\theta = \frac{\pi}{3} + \pi n$ (none of the above)
10.	B	$\phi = \frac{3\pi}{8} + \frac{\pi}{2}n$
11.	C	$\mu = \frac{3\pi}{8}, \frac{7\pi}{8}, \frac{11\pi}{8}, \frac{15\pi}{8}$
12.	A	$\sin(40^{\circ})$
13.	C	$\alpha = 56.3^{\circ}$
14.	B	$\frac{2}{\sqrt{85}}$
15.	D	$\frac{7\sqrt{15}}{32}$