

MA 154, Fall 2005
Exam 2 Answers

Question	Answer	Green Form A	Orange Form B
1.	Period = 4π , Phase Shift = $\frac{2\pi}{3}$	E	C
2.	$\frac{-3\pi}{38}$	D	B
3.	$f(t) = 3\sin\left(\frac{\pi}{12}t - \frac{11\pi}{12}\right) + 16$	A	D
4.	$c = a \sec \beta$	B	E
5.	104.6 meters	D	B
6.	$\cos 71^\circ$	C	A
7.	$\frac{\pi}{3}, \frac{5\pi}{3}, \pi$	A	C
8.	$\frac{1}{2}(\sin \theta + \sqrt{3} \cos \theta)$	B	D
9.	$x = \frac{5\pi}{4} + 2\pi n, \frac{7\pi}{4} + 2\pi n$	C	B
10.	223.7°	D	A
11.	$x = \frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$	A	C
12.	$\frac{43}{17\sqrt{41}}$	C	A
13.	$\frac{2\pi}{3}$	C	A
14.	$\frac{-24}{7}$	B	D
15.	$\frac{\pi}{2}, \frac{3\pi}{2}, \frac{4\pi}{3}, \frac{5\pi}{3}$	B	D