

MA 154, Fall 2004, Exam 2 Answers

Question	Answer	Form A Green	Form B Orange
1.	$4\sqrt{3}$	D	B
2.	Period = 8 Phase Shift = 2	E	E
3.	$y = 4\sin(x + \pi)$	D	B
4.	118 miles	B	D
5.	67°	A	C
6.	$x = \frac{5\pi}{12}, \frac{13\pi}{12}, \frac{21\pi}{12}$	A	C
7.	$\sin 42^\circ$	D	B
8.	$x = \frac{5\pi}{4} + 2\pi n, \frac{7\pi}{4} + 2\pi n$	E	E
9.	$t = \frac{4\pi}{3} + 4\pi n$	C	A
10.	$t = \frac{2\pi}{3}, \frac{4\pi}{3}, \pi$	D	B
11.	$t = \frac{\pi}{2}, \frac{3\pi}{2}$	D	B
12.	$\frac{-7\sqrt{15} - 168}{200}$	A	C
13.	$\frac{-8\sqrt{33}}{49}$	C	A
14.	5.5°	C	A
15.	4	B	D

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6.	$x=\frac{5\pi}{12}, \frac{13\pi}{12}, \frac{21\pi}{12}$	A	C
7.	$\sin 42^\circ$	D	B
8.	$x=\frac{5\pi}{4}+2\pi n, \frac{7\pi}{4}+2\pi n$	E	E
9.	$t=\frac{4\pi}{3}+4\pi n$	C	A
10.	$t=\frac{2\pi}{3}, \frac{4\pi}{3}, \pi$	D	B
11.	$t=\frac{\pi}{2}, \frac{3\pi}{2}$	D	B
12.	$\frac{-7\sqrt{15}-168}{200}$	A	C
13.	$\frac{-8\sqrt{33}}{49}$	C	A
14.	5.5°	C	A
15.	4	B	D