

MA 15400, Spring 2014

Exam 1 Answers

Question	Form A, Green		Form B, Orange	
1.	A	131°2'51"	C	41°52'41"
2.	B	153.1433°	A	153.6022°
3.	D	3.92 km	D	3.17 km
4.	A	6.4°	B	6.6°
5.	C	$\cos \theta = \frac{b}{\sqrt{a^2 + b^2}}$	D	$\sin \theta = \frac{b}{\sqrt{a^2 + b^2}}$
6.	D	<i>IV</i>	B	<i>II</i>
7.	A	$\frac{-6}{\sqrt{61}}$	C	$\frac{5}{\sqrt{61}}$
8.	B	$\left(\frac{-5}{13}, \frac{-12}{13}\right)$	A	$\left(\frac{-5}{13}, \frac{-12}{13}\right)$
9.	E	Undefined	E	Undefined
10.	A	$-\infty$	D	∞
11.	D	$\theta_r = \frac{\pi}{3}$	A	$\theta_r = \frac{\pi}{4}$
12.	B	$\frac{\sqrt{3}}{2}$	D	$\frac{-\sqrt{3}}{2}$
13.	C	$\theta = 77.3^\circ, 282.7^\circ$	A	$\theta = 12.7^\circ, 167.3^\circ$
14.	D	$\theta = 2.3374, 5.4790$	B	$\theta = 2.3750, 5.5166$
15.	A	6	D	6
16.	C	20	A	20
17.	B	-15	C	-15