

Math 115 Section 03 (Barsamian) Quiz 8

Ohio University, Wednesday, 27 October, 2004

Name (print): _____

Q8: $\frac{\quad}{20}$ Attendance: $\frac{\quad}{37}$ Quizzes: $\frac{\quad}{160}$ Exams: $\frac{\quad}{200}$ Course: $\frac{\quad}{397} =$ % =

1 $\arccos\left(\frac{1}{2}\right) =$

2 $\arcsin(-1) =$

3 $\arctan(1) =$

4 $\arctan(0) =$

5 $\cos\left(\arccos\left(\frac{1}{2}\right)\right) =$

6 $\arccos\left(\cos\left(\frac{\pi}{4}\right)\right) =$

7 $\arccos\left(\cos\left(-\frac{\pi}{3}\right)\right) =$

8 $\arccos\left(\sin\left(-\frac{\pi}{6}\right)\right) =$

The Law of Cosines: $a^2 = b^2 + c^2 - 2bc \cos(\alpha)$	The Law of Sines: $\frac{\sin(\alpha)}{a} = \frac{\sin(\beta)}{b} = \frac{\sin(\gamma)}{c}$.
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9 Suppose that the following quantities in a triangle are known:

sides *angles*

$a = 3$ $\alpha = ?$

$b = 5$ $\beta = ?$

$c = 7$ $\gamma = ?$

Use the Law of Cosines to find angle γ .Use the Law of Sines to find angle α .Use the Law of Sines again to find angle β .