

Pre-Calculus Multiple Choice Questions - Chapter A6

1 Evaluate $\sin(90^\circ)$ exactly

a $\frac{\sqrt{2}}{2}$

c $\frac{\sqrt{3}}{2}$

e 0

2 Evaluate $\cos \frac{5\pi}{6}$ exactly

a $\frac{\sqrt{2}}{2}$

c $\frac{\sqrt{3}}{2}$

e 0

3 Evaluate $\tan \frac{\pi}{3}$ exactly

a $\sqrt{3}$

c $\frac{\sqrt{3}}{2}$

e 1

b $\frac{3}{2}$

d 1

b $-\frac{\sqrt{3}}{2}$

d $-\frac{\sqrt{2}}{2}$

b $-\sqrt{3}$

d $-\frac{\sqrt{3}}{2}$

	A6.2
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	A6.2
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	A6.2
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- 1** Solve the equation in the specified interval
a -1.190, 1.190
c -4.332, 4.332

- $\tan x = 2.5$
b 1.190, 4.332
d 1.190, 2.761

$0 < x < 2\pi$

	A6.5
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- 2** Solve the equation in the specified interval
a 2.34, 5.49
c 5.49, 8.629

- $\cos x = -0.7$
b 9.211, 10.220
d 8.629, 10.220

$2\pi < x < 4\pi$

	A6.5
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- 3** Solve the equation in the specified interval
a -1.911, 1.911
c -0.544, 0.544

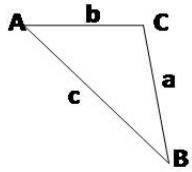
- $\sec x = -3$
b -1.232, 1.232
d -0.977, 0.977

$-\pi < x < \pi$

	A6.5
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1



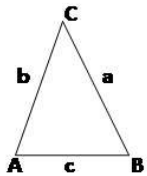
NOTE: Image not drawn to scale

Calculate the length of c if $a = 85$, the measure of A is 35° , and the measure of B is 28°

- a 0.02
- b 132
- c 148
- d 25.5

	A6.6
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2



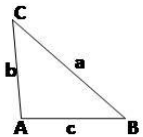
NOTE: Image not drawn to scale

Calculate the length of b if $c = 21$, the measure of A is 58° and the measure of B is 70°

- a 25
- b 35
- c 12
- d 18

	A6.6
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3



NOTE: Image not drawn to scale

Calculate the measure of angle C if the measure of A is 120° and the length of c is 13 and the length of a is 28

- a 38°
- b 31°
- c 13°
- d 24°

	A6.6
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