

PRE-CALC ACADEMIC

6.1 – 6.2 TEST

PART I TEST (CALCULATOR)

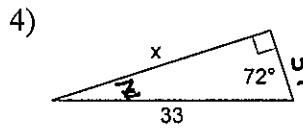
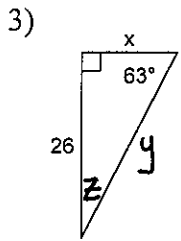
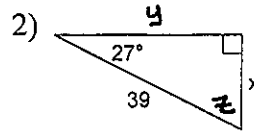
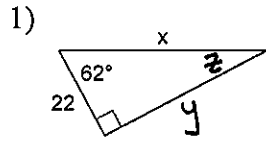
- SOHCAHTOA
- LAW OF SINES
- LAW OF COSINES

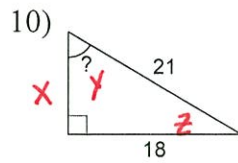
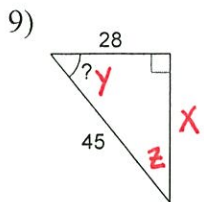
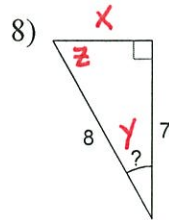
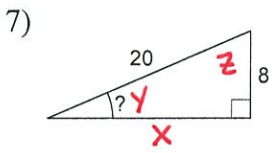
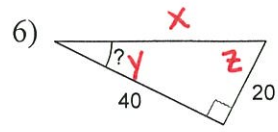
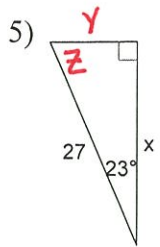
PART II TEST

- SPECIAL RIGHT TRIANGLES
(NO CALCULATOR)
- UNIT CIRCLE PROBLEMS
(NO CALCULATOR)
- WORD PROBLEMS – LOOK OVER
PROBLEMS FROM BINDER
(CALCULATOR)

STUDY GUIDE (PART I)

Find the missing side(s)/angle(s). Round to the nearest thousandth.





STUDY GUIDE (PART I)

Solve each triangle. Round your answers to the nearest thousandth.

1) $m\angle A = 57^\circ$, $c = 28$ m, $a = 17$ m

2) $m\angle C = 28^\circ$, $m\angle A = 91^\circ$, $c = 15$ yd

3) $m\angle C = 44^\circ$, $m\angle A = 38^\circ$, $c = 26$ yd

4) $m\angle C = 145^\circ$, $b = 9$ in, $c = 23$ in

5) $m\angle A = 96^\circ$, $a = 24$ km, $c = 5$ km

6) $a = 15$ yd, $m\angle B = 113^\circ$, $c = 20$ yd

7) $c = 12$ in, $b = 22$ in, $m\angle A = 91^\circ$

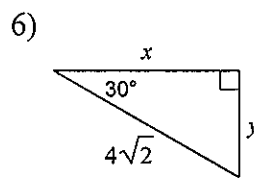
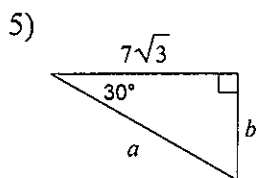
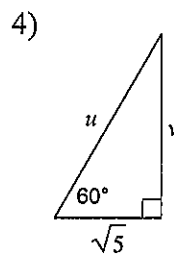
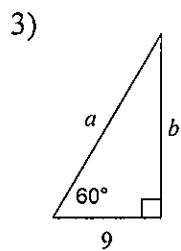
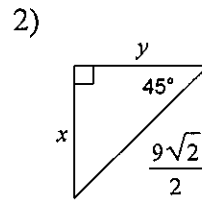
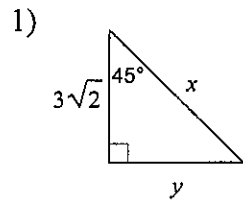
8) $c = 29$ km, $b = 13$ km, $a = 21$ km

9) $m\angle A = 106.2^\circ$, $b = 27.4$ in, $c = 20.9$ in

10) $c = 28$ cm, $a = 15$ cm, $b = 17$ cm

STUDY GUIDE (PART II)

Find the missing side lengths. Leave your answers as radicals in simplest form.



STUDY GUIDE (PART II)

Find the exact value of each trigonometric function.

1) $\sin 0$

2) $\cos -\frac{3\pi}{4}$

3) $\sec -60^\circ$

4) $\cot -225^\circ$

5) $\sin -135^\circ$

6) $\cos \frac{\pi}{2}$

7) $\csc 300^\circ$

8) $\sec \frac{5\pi}{4}$

9) $\tan -\frac{\pi}{3}$

10) $\sin 150^\circ$

11) $\cos -\frac{4\pi}{3}$

12) $\sin \pi$

13) $\csc \frac{3\pi}{2}$

14) $\csc 210^\circ$

15) $\cos -\pi$

16) $\tan 135^\circ$

17) $\sec 150^\circ$

18) $\tan 210^\circ$

19) $\cot 240^\circ$

20) $\tan -\frac{3\pi}{2}$