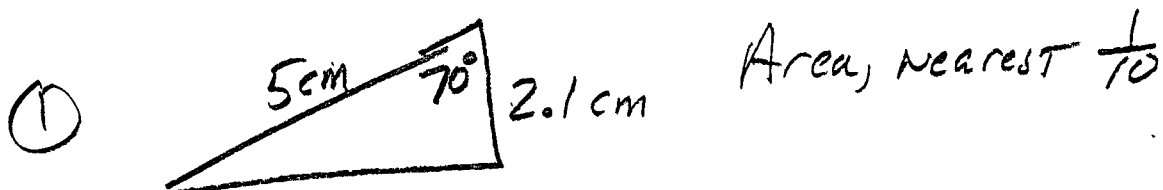
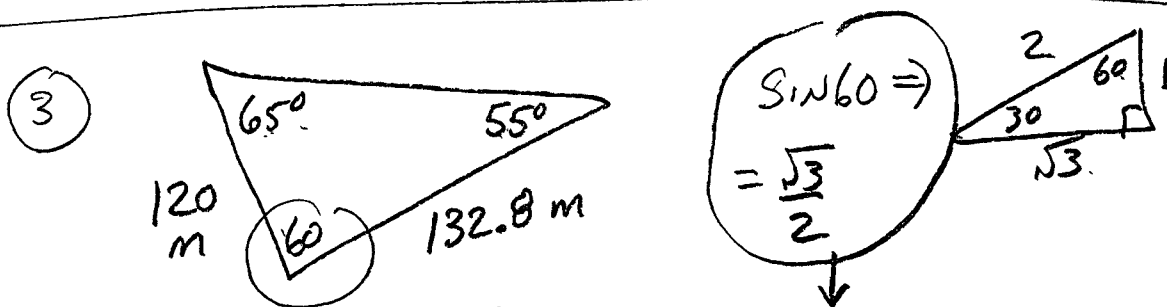


Algebra 2 Weds. 12-5-12 CLASS NOTES



$$A_{\Delta} = \frac{1}{2}(5)(2.1)\sin 70$$

$$A_{\Delta} = 5.25(.9397) = 4.933 = \boxed{4.9 \text{ cm}^2}$$

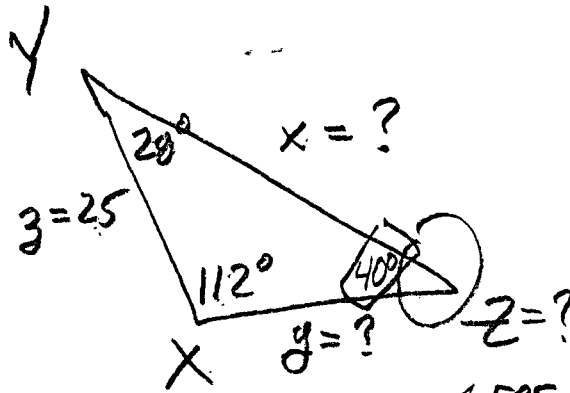


$$A_{\Delta} = \frac{1}{2}(\overset{30}{120})(132.8) \frac{\sqrt{3}}{2}$$

$$A_{\Delta} = 6900.490 = \boxed{6900.5 \text{ m}^2}$$

Homework Review

⑤



ASA = LOS

$$\boxed{Z = 40^\circ}$$

~~$$\frac{\sin 40}{25} = \frac{\sin 112}{x}$$~~

REF Angle = 68°

~~$$\frac{x \sin 40}{\sin 40} = \frac{25 \sin 68}{\sin 40} = \frac{25(.9272)}{(.6428)}$$~~

$$x = 36.0610$$

$$\boxed{x = 36.1}$$

$$\frac{\sin 40}{25} = \frac{\sin 28}{y}$$

~~$$\frac{y \sin 40}{\sin 40} = \frac{25 \sin 28}{\sin 40} = \frac{25(.4695)}{(.6428)}$$~~

$$y = 18.259$$

$$\boxed{y = 18.3}$$

Algebra 2 -All work on looseleaf. Trig. Table, +- calc. ok Name _____

Week 6 Quiz 4 Bonus - 12 points

Date _____ Period _____

Find the exact value of each trigonometric function.

1) $\cot 90^\circ$

2) $\tan -585^\circ$

3) $\csc -\frac{14\pi}{3}$

4) $\tan 3\pi$

5) $\cot \frac{\pi}{6}$

6) $\sin -\frac{7\pi}{4}$

Convert each degree measure into radians and each radian measure into degrees.

7) $-\frac{11\pi}{4}$

8) $\frac{17\pi}{36}$

9) $-\frac{7\pi}{4}$

10) $-\frac{25\pi}{18}$

Find the reference angle.

11) $\frac{29\pi}{12}$

12) $\frac{9\pi}{4}$

Example Problems

Answers to Week 6 Quiz 4 Bonus - 12 points (ID: 1)

1) 0

2) -1

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

4) 0

5) $\sqrt{3}$

6) $\frac{\sqrt{2}}{2}$

7) -495°

8) 85°

9) -315°

10) -250°

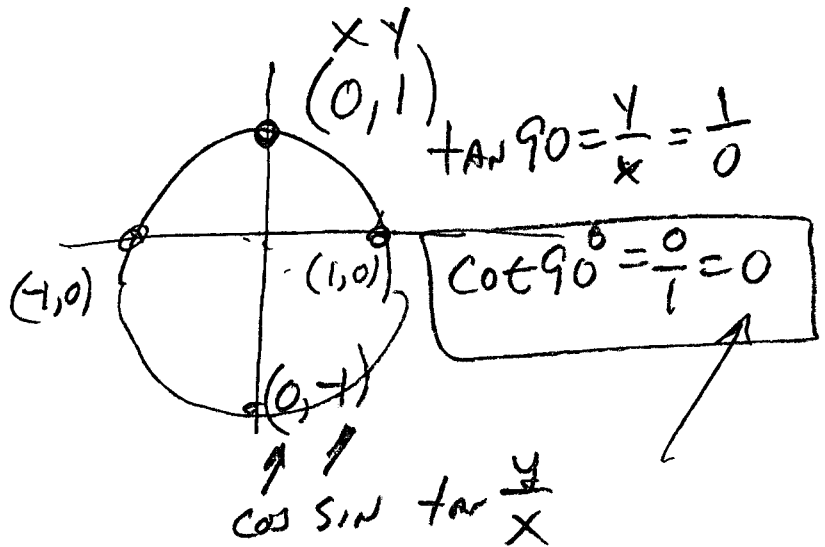
11) $\frac{5\pi}{12}$

12) $\frac{\pi}{4}$

$$\textcircled{1} \cot 90^\circ$$



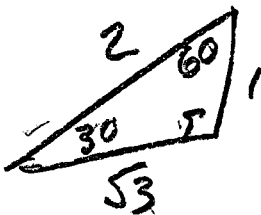
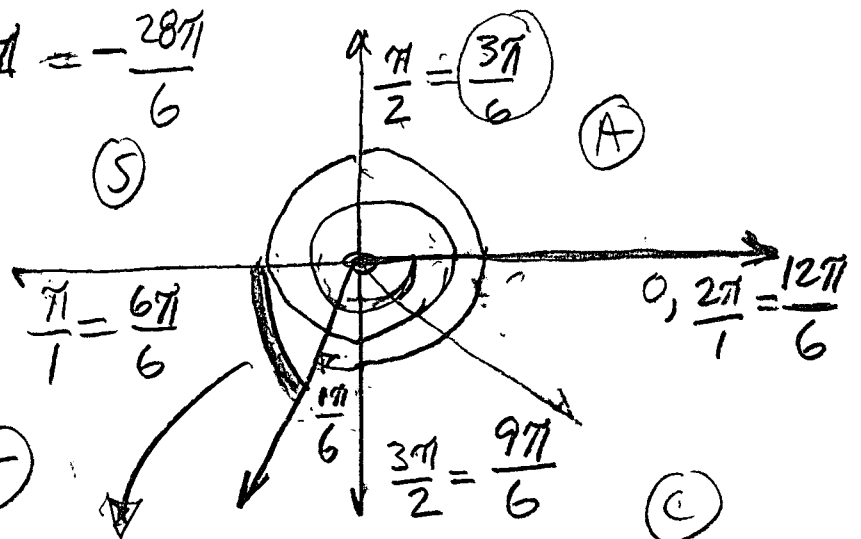
$$= \cot \frac{\pi}{2}$$



$$\textcircled{3} \csc -\frac{14\pi}{3} = -\frac{28\pi}{6}$$



(5)



(T)

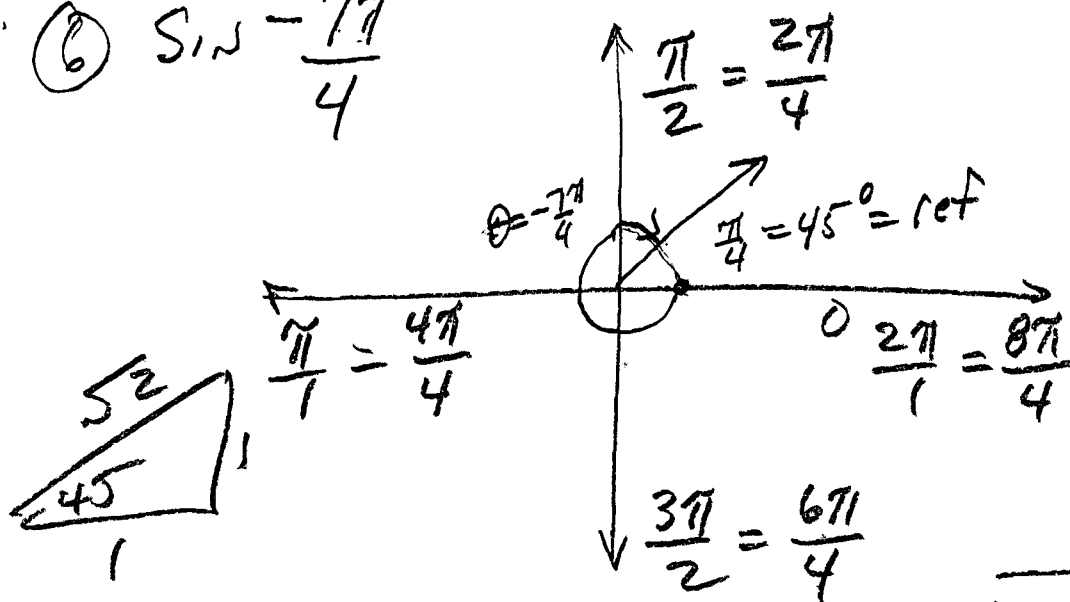
$$\text{ref} = \frac{2\pi}{6} = \frac{\pi}{3} = 60^\circ$$

$$\sin -\frac{14\pi}{3} = -\sin 60 = -\frac{\sqrt{3}}{2}$$

$$\therefore \csc -\frac{14\pi}{3} = -\frac{2}{\frac{\sqrt{3}}{2}} = -\frac{2\sqrt{3}}{\sqrt{3}}$$

$$\boxed{\csc -\frac{14\pi}{3} = -\frac{2\sqrt{3}}{3}}$$

⑥ $\sin -\frac{7\pi}{4}$



$$\sin -\frac{7\pi}{4} = \sin 45 = \frac{1}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}}$$