Today's Plan:

Learning Target (standard): I will review for the semester exam.

Students will: Complete practice problems over previous concepts at the boards and study for my exam.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuarcy and provide students feedback, describe and provide examples of exam problems.

Assessment: Board work

Differentiation: Students will work at the board, actively engage in practice review concepts with the aid of other students and the teacher.

$$38) + \tan 75^{\circ}$$

$$= + \tan (120^{\circ} - 45^{\circ})$$

$$= \frac{1}{1 + \tan 120^{\circ} + \tan 45^{\circ}}$$

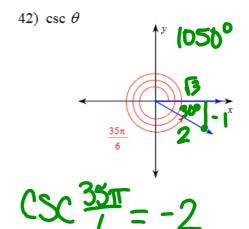
$$= -\frac{1}{1 + (-13)(1)}$$

$$= -\frac{1}{1 - 3}$$

Find the exact value of each trigonometric function.

41)
$$\sin \theta$$

$$\frac{1}{\sqrt{3}} \frac{3\pi}{4}$$



Find each angle measure to the nearest degree.

43)
$$\sin Y = 0.2588$$
 $\sin^{-1}(.2588) = 1$

Find the measure of the indicated angle to the nearest degree.

$$\frac{45}{200} = \frac{45}{50}$$

$$\frac{45}{50} = \frac{45}{50}$$

$$\frac{605}{50} = \frac{45}{50}$$

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Establish the identity.

$$\sin\theta \csc\theta - \sin^2\theta = \cos^2\theta$$

$$\sin\theta \left(\frac{1}{\sin^2\theta}\right) - \sin^2\theta$$

$$(\sin^2\theta + \cos^2\theta) - \sin^2\theta$$

$$\cos^2\theta = \cos^2\theta$$

$$\sin^2\theta + \cos^2\theta = \sin^2\theta + \cos^2\theta$$

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Establish the identity.

$$\frac{\sin\theta}{1+\cos\theta} + \frac{1+\cos\theta}{\sin\theta} = 2\csc\theta$$

$$\frac{\sin^2\theta}{\sin\theta(1+\cos\theta)} + \frac{(1+\cos\theta)^2}{\sin\theta(1+\cos\theta)}$$

$$\frac{5.10^{2}\theta + \cos^{2}\theta + 2\cos\theta + 1}{5.00\theta (1 + \cos\theta)}$$

$$\frac{(1)+2\cos\theta+1}{5in\theta(1+\cos\theta)}$$

$$\frac{2+2\cos\theta}{\sin\theta(1+\cos\theta)}$$

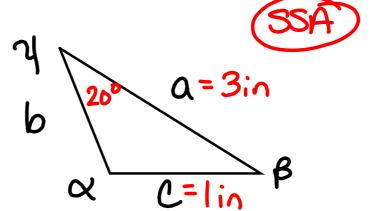
$$2 \cdot \frac{1}{\sin \theta}$$
 $2 \cdot \left(\csc \theta\right)$

Solve the triangle:

$$a = 3in$$

$$c = 1in$$

$$\gamma = 20^{\circ}$$



$$\frac{\sin \alpha}{3} = \frac{\sin 20}{1}$$

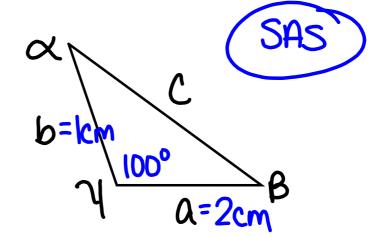
no triangle

Find the area of the triangle:

$$a = 2cm$$

$$b = 1cm$$

$$\gamma = 100^{\circ}$$



$$A = \frac{1}{2}absiny$$

= $\frac{1}{2}(2)(1)Sin100^{\circ}$

$$A = .985 \text{ cm}^2$$