

Name: _____

Place Your Bets

Work Space

Solve, $0 \leq \theta < 2\pi$

Wager

Total

① $\sin\left(\frac{\pi}{2} - \theta\right) = \sec \theta$

500
100

600

Work Space

② Find the area of $\triangle ABC$
if $m\angle B = 28^\circ$ and $a = 18.8m$
and $c = 20.8m$
Round to nearest tenth.

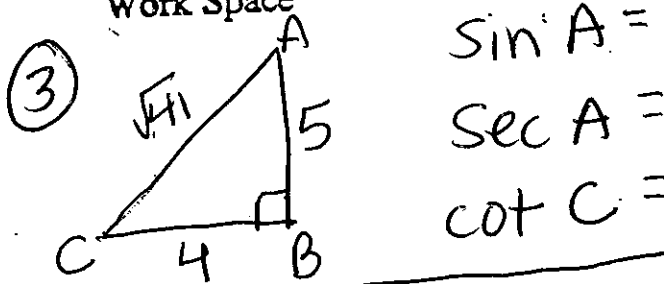
Wager

Total

100

200

Work Space



Wager

Total

200

900

Work Space

④ $\triangle DEF$ is a right \triangle .
 $\angle F$ is the right \angle .
 $e = 6$ $f = 10$ $d =$ _____
 $\angle E =$ _____

Wager

Total

300

1200

Work Space

round to whole #

⑤ $\triangle GHI$
 $m\angle G = 96^\circ$, $h = 8$, $i = 12$
Find $m\angle I$. Use Law of
Cosines.
nearest tenth.

Wager

Total

200

Wager

Total

Ch. 14 Place Your Bets Review

① $\sin\left(\frac{\pi}{2} - \theta\right) = \sec \theta$

$\cos \theta = \frac{1}{\cos \theta}$

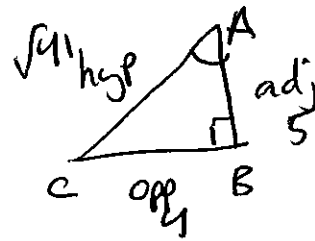
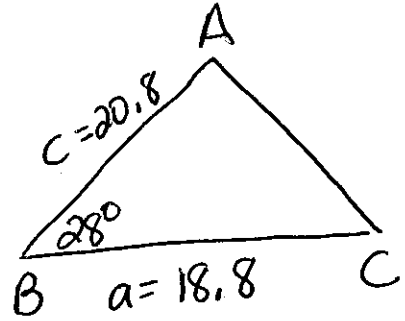
$\sqrt{\cos^2 \theta} = \sqrt{1}$

$\cos \theta = \pm 1$

$\theta = 0, \pi$

② $A = \frac{1}{2} ac \sin B$

mode:
degrees
 $= \frac{1}{2} (18.8)(20.8) \sin 28^\circ$
 $\approx 91.8 \text{ m}^2$

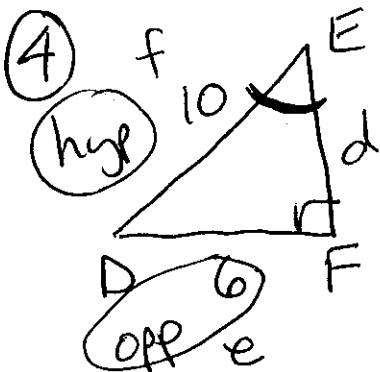
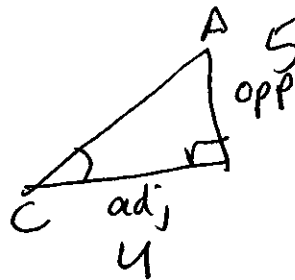


S
C
+
A
O
A

③ $\sin A = \frac{4}{\sqrt{41}} = \frac{4\sqrt{41}}{41}$

④ $\sec A = \frac{\sqrt{41}}{5}$

⑤ $\cot C = \frac{4}{5}$



$6^2 + d^2 = 10^2$

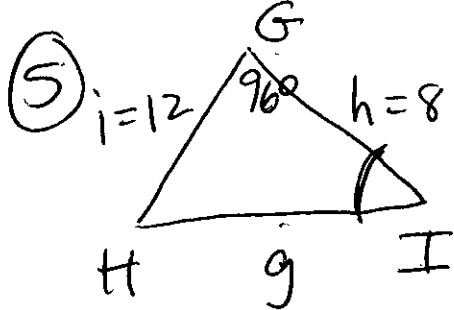
$36 + d^2 = 100$
 $-36 \quad -36$

$d^2 = 64$

$d = 8$

$m\angle E = \sin^{-1}\left(\frac{6}{10}\right)$
 $= 36.869$

$\approx 37^\circ$



$$g^2 = i^2 + h^2 - 2ih \cos G$$

$$12^2 + 8^2 - 2(12)(8) \cos 96^\circ$$

$$\sqrt{g^2} = \sqrt{228.069}$$

$$g = 15.1$$

~~$$\frac{15.1}{\sin 96^\circ} = \frac{12}{\sin I}$$~~

$$\sin I = .7903$$

$$I = \sin^{-1}(.7903)$$

$$I = 52.2^\circ$$

HW: p. 827-829

(8-15, 19-21, 22, 23, 25, 31, 33
34, 38, 39)