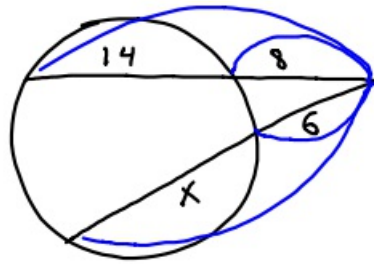


3-8-18 5<sup>th</sup> Geo

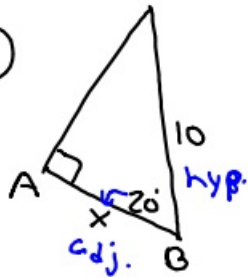
RQ 27

①



$$\begin{aligned} 8 \cdot 22 &= 6 \cdot (6+x) \\ 176 &= 36 + 6x \\ -36 & \quad -36 \\ \hline 140 &= 6x \\ \frac{140}{6} &= \frac{6x}{6} \\ x &\approx 23.\bar{3} \end{aligned}$$

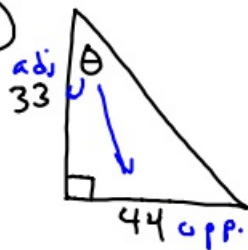
②



AB

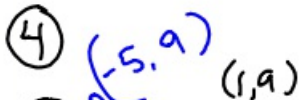
$$\begin{aligned} \frac{\cos 20^\circ}{1} &= \frac{x}{10} \\ x &= 10 \cdot \cos 20^\circ \\ x &= 9.4 \end{aligned}$$

③

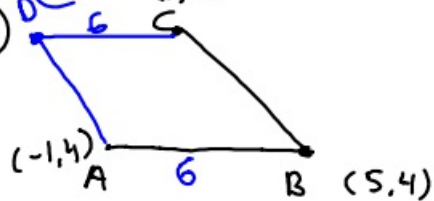


$$\begin{aligned} \tan^{-1} \frac{44}{33} &= \theta \\ \theta &\approx 53.1^\circ \end{aligned}$$

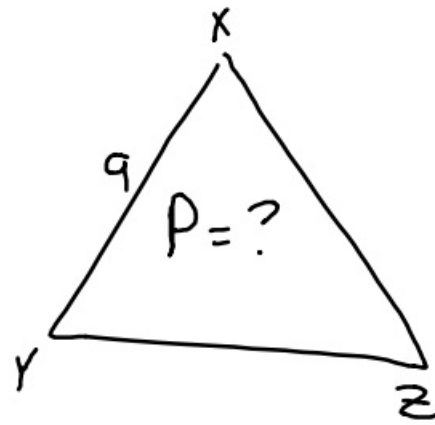
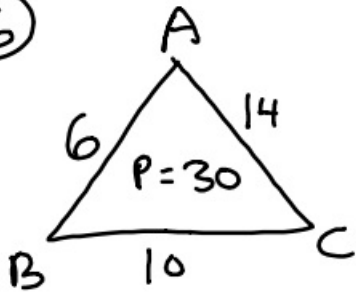
④



⑤



⑥



$$\frac{6}{9} = \frac{30}{P}$$

$$6P = 270$$

$$P = 45$$

⑦

$$y - y_1 = m(x - x_1) \quad y = 2x - 5$$

↓

$$m = 2$$

$$y - 8 = -\frac{1}{2}(x - 2) \quad \therefore \perp m = -\frac{1}{2}$$

$$y - 8 = -\frac{1}{2}x + 1$$

$$\begin{array}{r} +8 \\ \hline \end{array} \quad \begin{array}{r} +8 \\ \hline \end{array}$$

$$y = -\frac{1}{2}x + 9$$

⑧ interior  $\angle$  is  $175.5^\circ$ 

$$n = \frac{360}{\text{ext. } \angle}$$

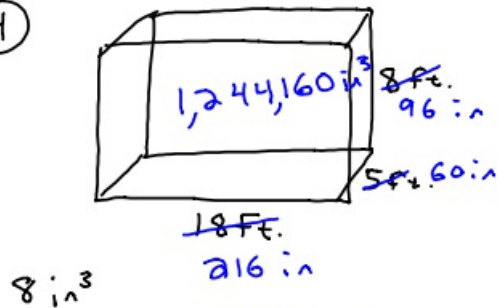
$$n = \frac{360}{4.5}$$

$$n = 80$$

$$\frac{175.5}{4.5} \dots$$

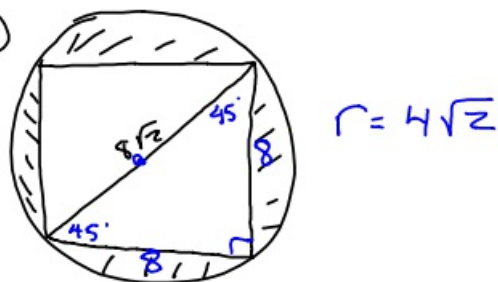
# Chapter 10 Test

14



$$\frac{1,244,160}{8} = 155,520$$

33



whole - hole

$$\pi \cdot (4\sqrt{2})^2 - 64$$

$$\pi \cdot 32 - 64$$

$$\approx 36.53$$

15

Sphere

$$S.A = 4 \cdot \pi \cdot r^2$$

↓

$$\frac{50.265}{(4\pi)} = \frac{4 \cdot \pi \cdot r^2}{4 \cdot \pi}$$

$$4 = r^2$$

$r = 2$  of ping pong ball

Tennis Ball  $r = 6$

$$V = \frac{4}{3} \pi r^3$$

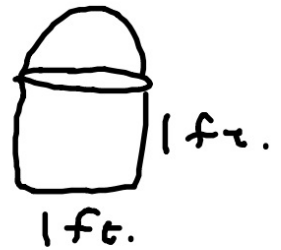
$$V = \frac{4}{3} \pi \cdot 6^3$$

$$\approx 905 \text{ cm}^3$$

34



$$\begin{aligned}V &= \pi r^2 \cdot h \\&= \pi \cdot 3^2 \cdot 1.5 \\&\approx 42.411 \dots \text{ft}^3\end{aligned}$$

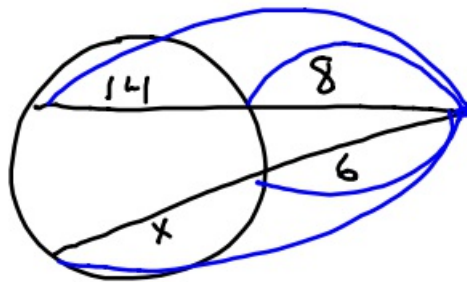


$$\begin{aligned}V &= \pi r^2 h \\&= \pi \cdot \left(\frac{1}{2}\right)^2 \cdot 1 \\&\approx .7853 \dots\end{aligned}$$

$$\frac{42.411}{.7853} \approx 54$$

3-8-18 6<sup>th</sup> Gen

①



$$8 \cdot 22 = 6 \cdot (6 + x)$$

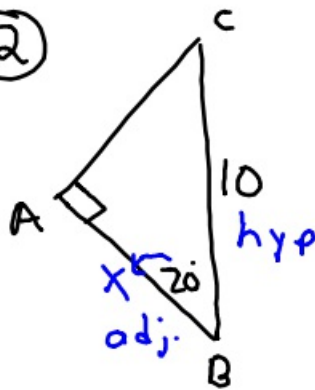
$$176 = 36 + 6x$$

$$\begin{array}{r} -36 \\ \hline 140 = 6x \end{array}$$

$$140 = 6x$$

$$x = 23.\bar{3}$$

②



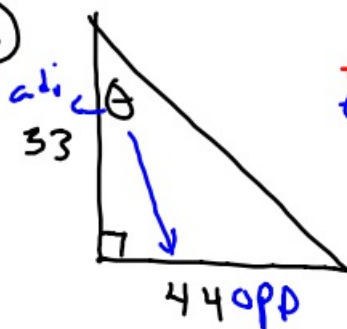
CAH

$$\frac{\cos 20^\circ}{1} = \frac{x}{10}$$

$$x = 10 \cdot \cos 20^\circ$$

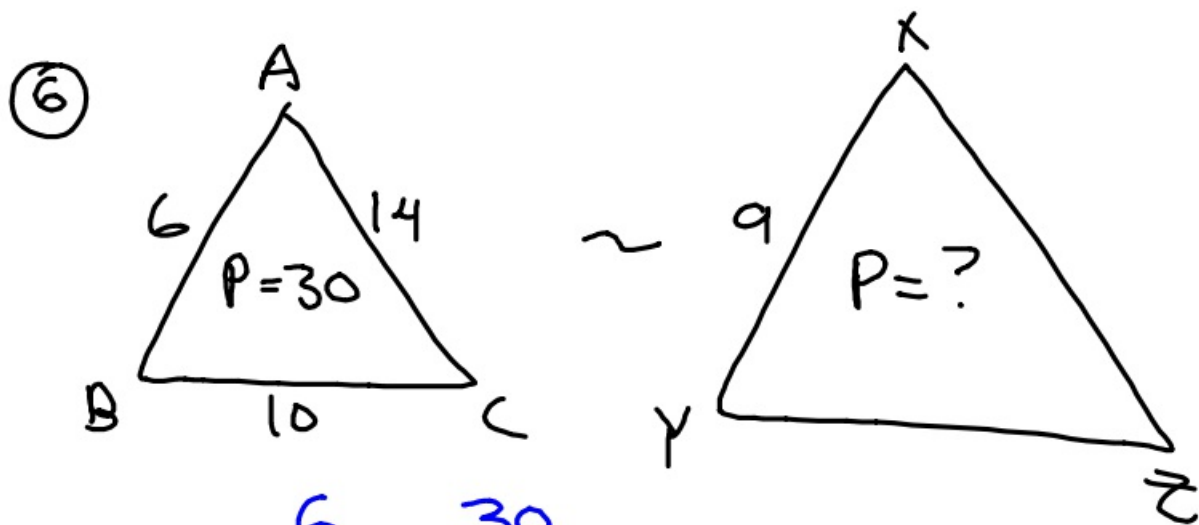
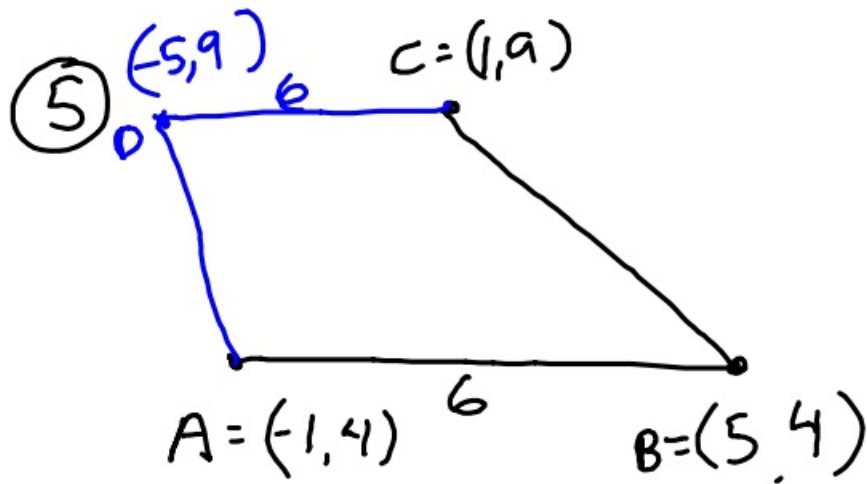
$$x \approx 9.4$$

③



$$\tan^{-1} \frac{44}{33} = \theta$$

$$\theta \approx 53.1^\circ$$



$$\frac{6}{9} = \frac{30}{P}$$

$$6P = 270$$

$$P = 45$$

⑦  $y - y_1 = m(x - x_1)$   $(2, 8)$

$$y - 8 = -\frac{1}{2}(x - 2) \quad \perp \text{ to } y = 2x - 5$$

$$y - 8 = -\frac{1}{2}x + 1$$

$$m = 2$$

$$\therefore \perp m = -\frac{1}{2}$$

---


$$y = -\frac{1}{2}x + 9$$

8



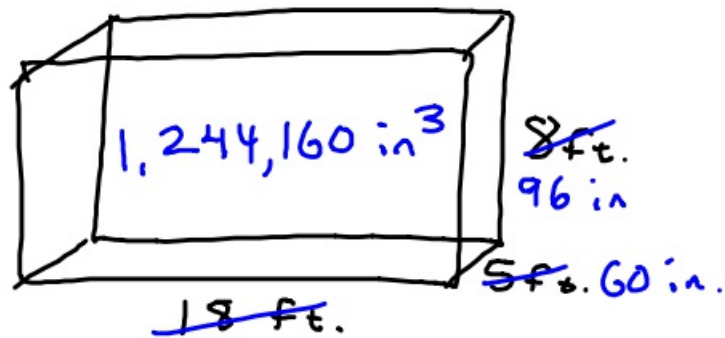
$$n = \frac{360}{\text{ext. } \angle}$$

$$n = \frac{360}{4.5}$$

$$n = 80$$

Ch. 10 Test

14



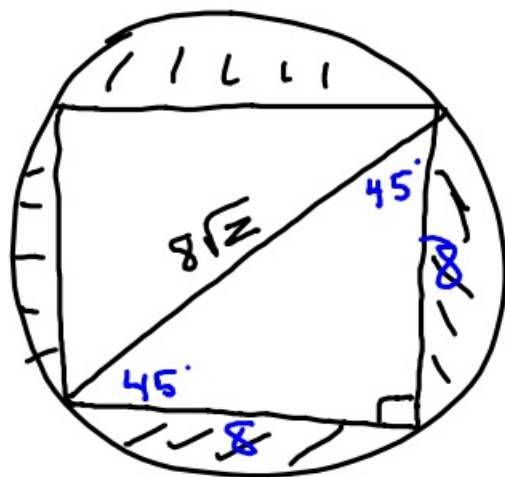
~~18 ft.~~

216

8 in<sup>3</sup>

$$\frac{1,244,160}{8} \approx 155,520$$

33



45-45-90 Right  
hypotenuse is  
 $\sqrt{2}$  times  
larger than side

Whole - hole (square)

$$\pi \cdot (4\sqrt{2})^2 - 64$$

$$\pi \cdot 32 - 64$$

$$\approx 37$$

15 Ping Pong ball S.A. =  $50.265 \text{ cm}^2$

$$\text{S.A.} = 4 \cdot \pi \cdot r^2$$

$$\frac{50.265}{4\pi} = \frac{4 \cdot \pi \cdot r^2}{4\pi}$$

$$4 = r^2$$

$$r = 2$$

$\therefore$  tennis ball has a  $r = 6$

$$V = \frac{4}{3} \cdot \pi \cdot 6^3$$

$$\approx 905 \text{ cm}^3$$