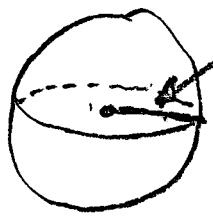


6.



5.3 in

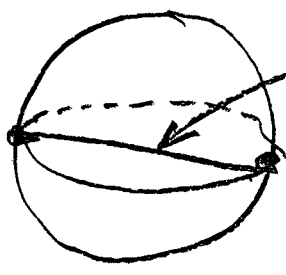
S.A. = ?

$112.36\pi \text{ in}^2$

352.99 in^2

$S.A. = 4\pi r^2 = 4\pi (5.3)^2 =$

8

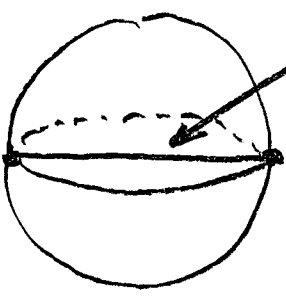


8 cm

S.A. = ?

201.06 cm^2

14



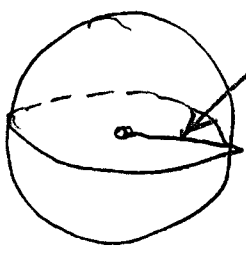
7.4 cm

V = ?

$67.54\pi \text{ cm}^3$ EXACT

212.18 cm^3 APPROX

17



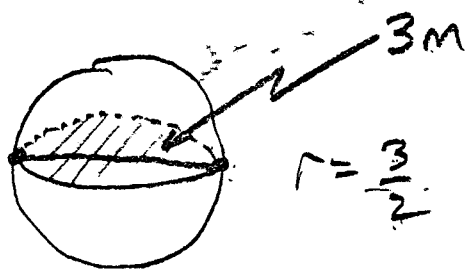
9.3 m

V = ?

$1072.48\pi \text{ m}^3$

3369.30 m^3

5



S.A. = ?

$$S.A. = 4\pi r^2 = 4(\pi)\left(\frac{3}{2}\right)^2 = 4\pi \frac{9}{4}$$

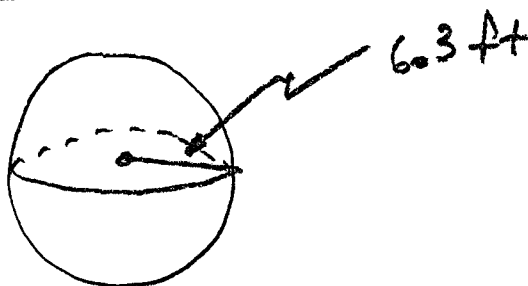
$$= \boxed{9\pi \text{ m}^2} \text{ EXACT}$$

$$= 9(3.1416)$$

$$= 28.274 \text{ APPROX}$$

$$= \boxed{28.27 \text{ m}^2}$$

7



S.A. = ?

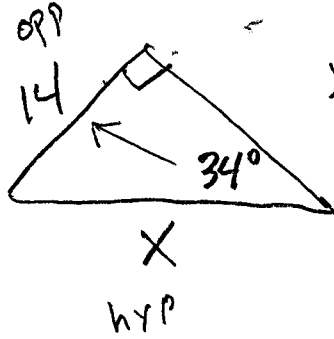
$$S.A. = 4\pi r^2 = 4\pi (6.3)^2$$

$$= 4\pi (39.69) = \boxed{158.76\pi \text{ ft}^2} \text{ EXACT}$$

$$\approx 498.760 \text{ APPROX}$$

$$= \boxed{498.76 \text{ ft}^2}$$

(32)



$$X \sin 34^\circ = \frac{14}{X} \cdot X$$

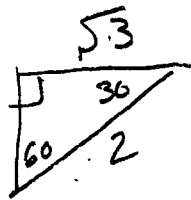
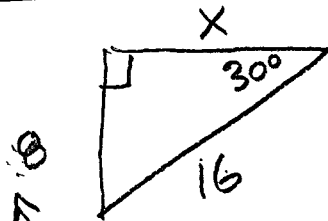
$$\frac{X \sin 34^\circ}{\sin 34^\circ} = \frac{14}{\sin 34^\circ}$$

$$X = \frac{14}{(0.5592)}$$

$$X = 25.036$$

$$\boxed{X = 25.0}$$

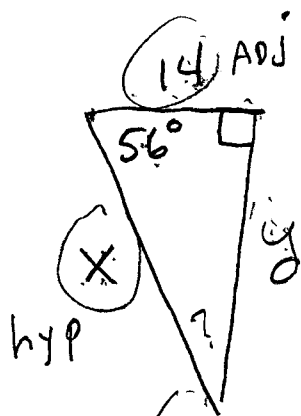
(40)



$$X = 8\sqrt{3} = 13.856$$

$$\boxed{X = 13.9}$$

(28)



$$X \cdot \cos 56^\circ = \frac{14}{X} \cdot X$$

$$\frac{X \cos 56^\circ}{\cos 56^\circ} = \frac{14}{\cos 56^\circ}$$

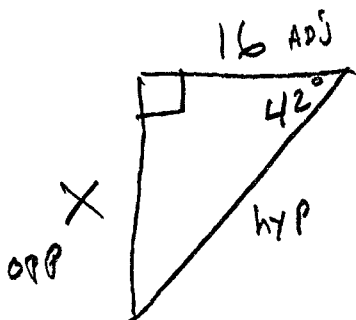
$$X = \frac{14}{(0.5592)}$$

$$X = 25.036$$

$$\boxed{X = 25.0}$$

340
NOT NEEDED

(29)



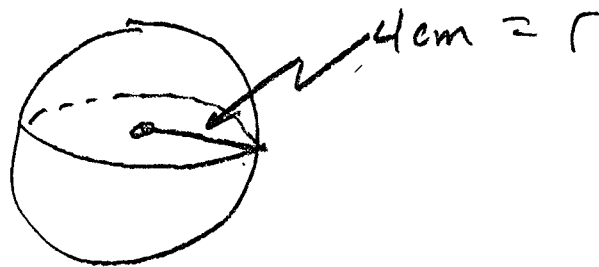
$$16 \tan 42^\circ = \frac{X}{16} \cdot 16$$

$$16 (.9004) = X$$

$$14.406 = X$$

$$\boxed{14.4 = X}$$

⑩

 $V = ?$ 

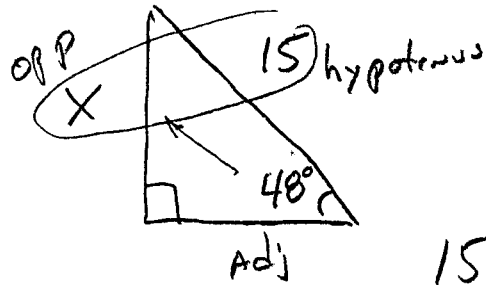
$$V = \frac{4}{3} \pi r^3 = \frac{4}{3} \pi (4)^3 = \frac{4}{3} \pi 64$$

$$V = \boxed{\frac{256}{3} \pi \text{ cm}^3}$$

$$V \approx \frac{256}{3} (3.1416)$$

$$V \approx 268.083 \approx \boxed{268.08 \text{ cm}^3}$$

(58)



$$\sin = \frac{O}{H}$$

$$15 \sin 48^\circ = \frac{X}{15} \cdot 15$$

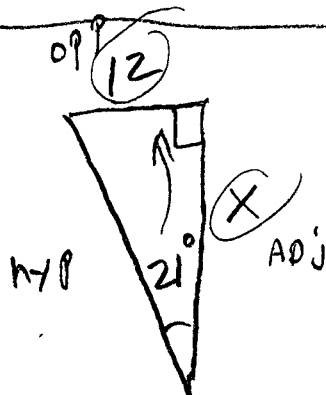
$$15(0.7431) = X$$

$$11.1465 = X$$

$$\boxed{11.15 = X} \text{ hund.}$$

11.1

(66)



$$X \tan 21^\circ = \frac{12}{X} \cdot X$$

$$\frac{X \tan 21}{\tan 21} = \frac{12}{\tan 21}$$

$$X = \frac{12}{.3839}$$

$$= 31.258 = \boxed{31.3}$$

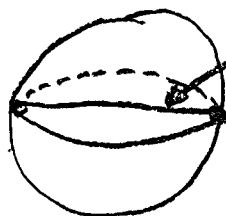
S.A. \Rightarrow hundredths
 \checkmark

SOHCAHTOA \Rightarrow tenths.

$$S.A. \Rightarrow 4\pi r^2$$

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

(2)



7.6 yd S.A.

$$S.A. = 4\pi r^2 = 4\pi (3.8)^2$$

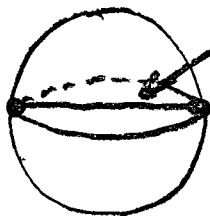
$$= 57.76\pi \text{ yd}^2$$

$$= 181.458$$

$$\approx 181.46 \text{ yd}^2$$

Approx

(18)



20.6 yd

$V = ?$

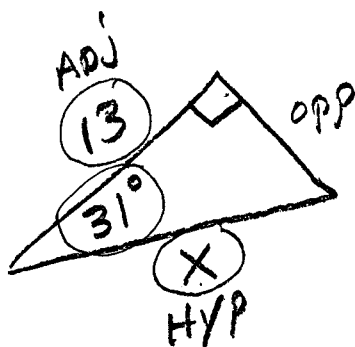
$$V = \frac{4}{3}\pi (10.3)^3 = (1092.727) \frac{4}{3}\pi$$

$$= 1456.969\pi \text{ yd}^3$$

$$\approx 4577.215$$

$$\approx 4577.22 \text{ yd}^3$$

(47)



$$X \cos 31^\circ = \frac{13}{X} \cdot X$$

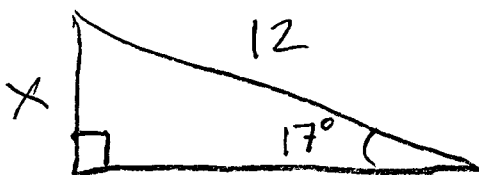
$$\frac{X \cos 31^\circ}{\cos 31^\circ} = \frac{13}{\cos 31^\circ}$$

$$X = \frac{13}{(.8572)}$$

$$X = 15.166$$

$$\boxed{X = 15.2}$$

(49)



$$12 \sin 17^\circ = \frac{X}{12} \cdot 12$$

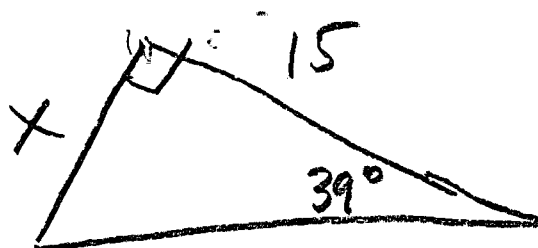
$$12 \sin 17 = X$$

$$12(.2924) = X$$

$$3.508 = X$$

$$\boxed{3.5 = X}$$

(64)



$$15 \cdot \tan 39^\circ = \frac{X}{15} \cdot 15$$

$$15 \tan 39 = X$$

$$15(.8098) = X$$

$$12.147 = X$$

$$\boxed{12.1 = X}$$