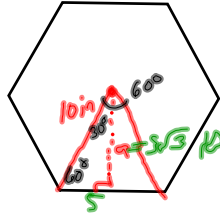


6.



$$\frac{10}{2} = \frac{2x}{2}$$

$$x = 5$$

$$A = \frac{1}{2} a P$$

$$\text{Central } \angle = \frac{360}{n} = \frac{360}{6} = 60$$

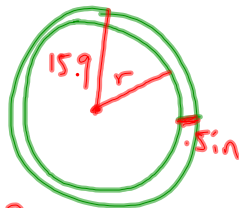
$$P = 6 \cdot 10 = 60$$

$$A = \frac{1}{2} \cdot 5\sqrt{3} \cdot 60$$

$$A = 150\sqrt{3}$$

$$A = 259.8 \text{ in}^2$$

32.



$$a = \frac{r}{w}$$

$$a = \frac{15.4}{2}$$

$$a = 7.7$$

$$C = 2\pi r$$

$$\frac{100}{2\pi} = \frac{2\pi r}{2\pi}$$

$$r = 15.9$$

$$\text{Central } \angle = \frac{360}{n}$$

$$= 40^\circ$$

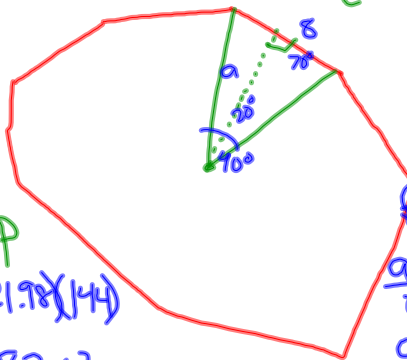
$$P = 144$$

$$\frac{144}{9} = 16$$

$$\frac{a \tan 20}{\tan 20} = \frac{8}{\tan 20}$$

$$a = 21.98$$

16.

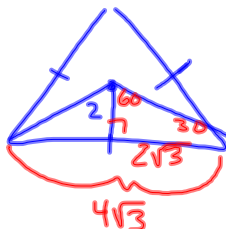


$$A = \frac{1}{2} a P$$

$$A = \frac{1}{2} (21.98)(144)$$

$$A = 1,582 \text{ in}^2$$

8.



$$\text{Central } \angle = \frac{360}{3}$$

$$= 120$$

$$A = \frac{1}{2} (2)(12\sqrt{3})$$

$$P = 3 \cdot 4\sqrt{3}$$

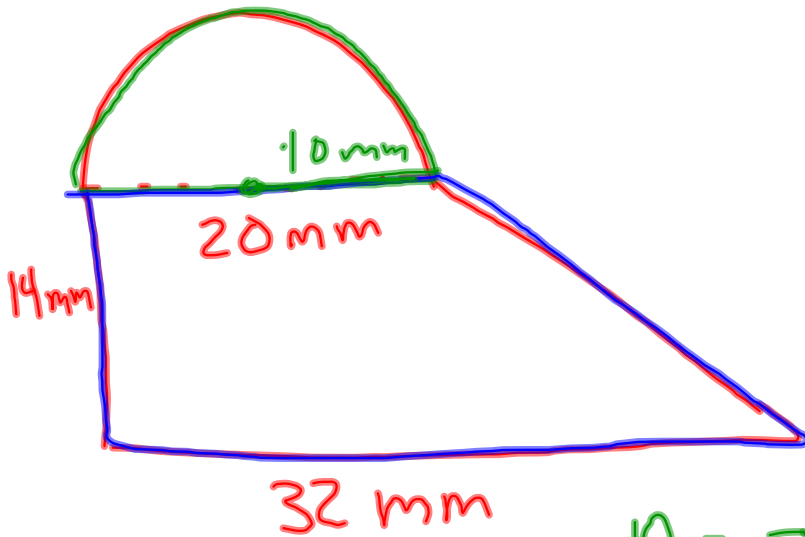
$$= 12\sqrt{3}$$

$$A = 20.8 \text{ ft}^2$$

$$\frac{4}{5} \angle \text{ } \uparrow \text{ } \uparrow$$

9.3 Composite Figures

figures made up of
simple shapes.



$$\begin{aligned}
 A &= \frac{1}{2}h(b_1 + b_2) \\
 &= \frac{1}{2}(14)(32 + 20) \\
 &= 364 \text{ mm}^2
 \end{aligned}$$

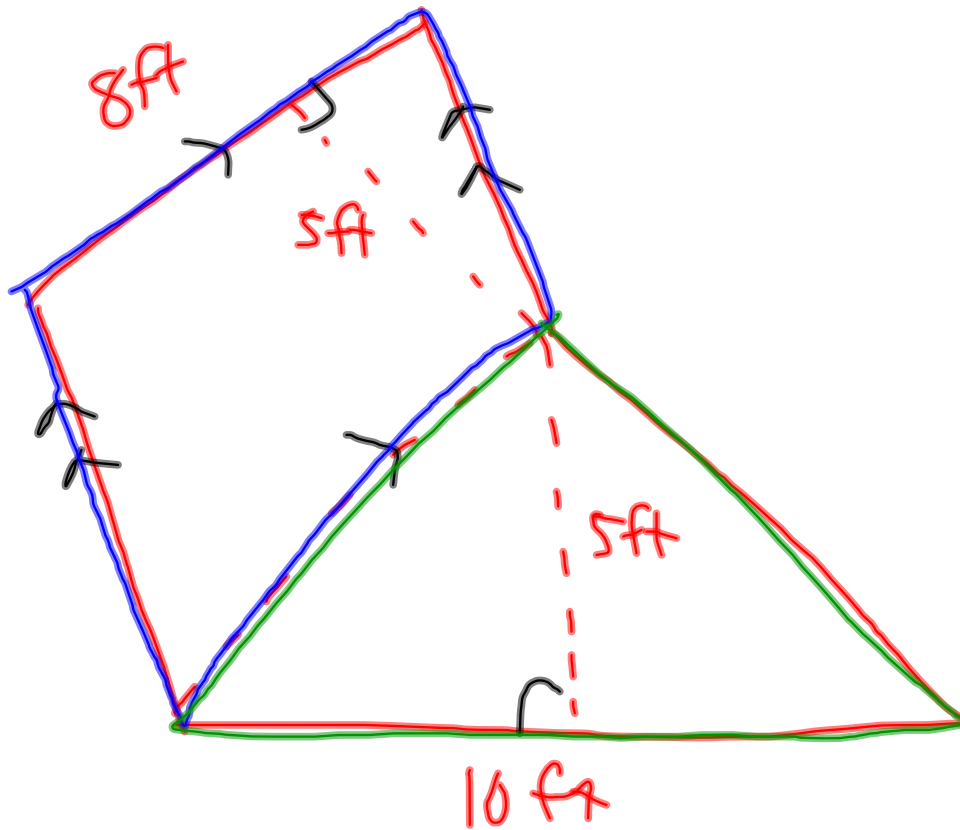
$$A = \pi r^2$$

$$A = \pi(10)^2$$

$$A = 100\pi$$

$$\frac{100\pi}{2} = 50\pi \text{ mm}^2$$

$$(364 + 50\pi) \text{ mm}^2$$



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

$$A = \frac{1}{2}(10)(5)$$

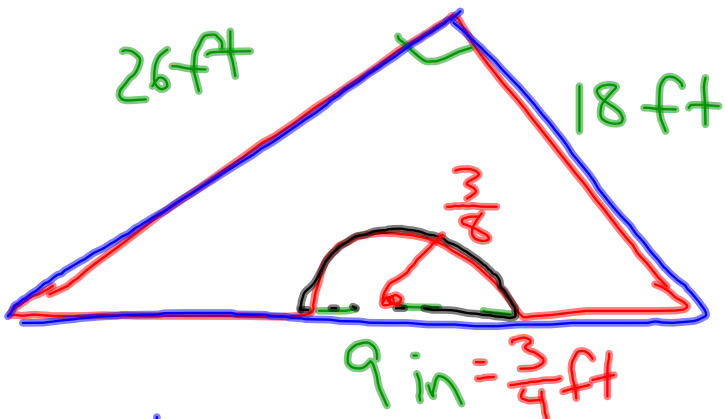
$$A = 25 \text{ ft}^2$$

$$A = bh$$

$$= 8 \cdot 5$$

$$= 40 \text{ ft}^2$$

$$25 + 40 = 65 \text{ ft}^2$$



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

$$= \frac{1}{2}(18)(26)$$

$$= 234 \text{ ft}$$

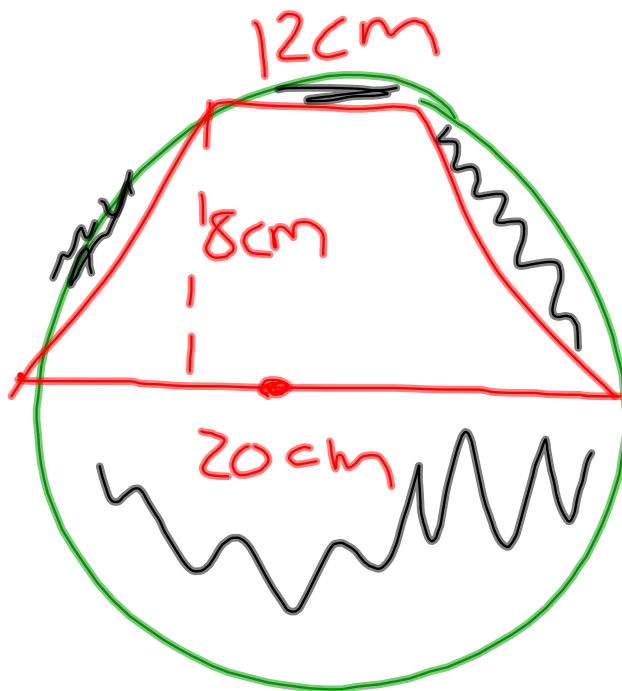
$$A = \pi r^2$$

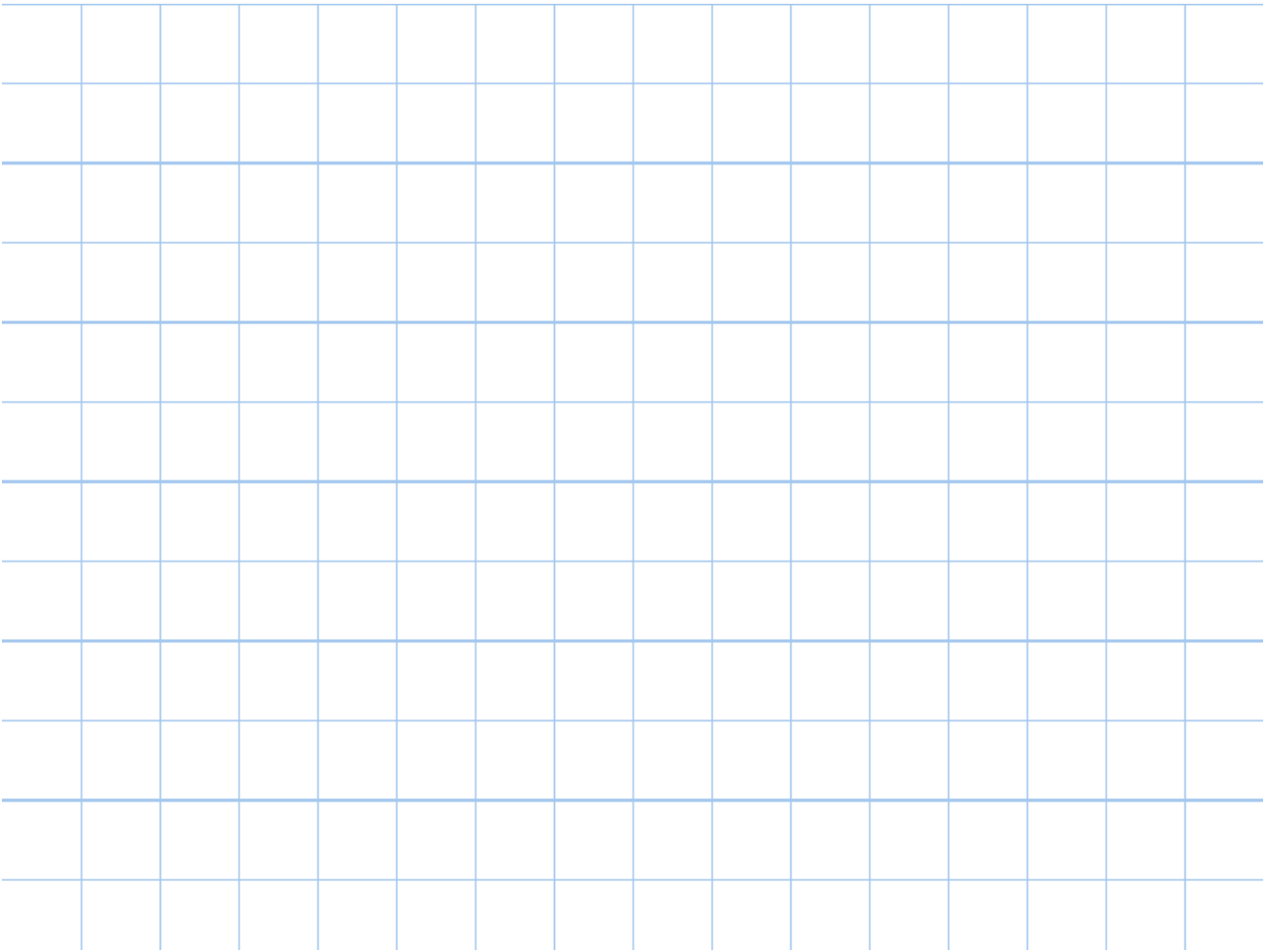
$$A = \pi \left(\frac{3}{8}\right)^2$$

$$A = \frac{9}{64} \pi \text{ ft}^2$$

$$\left(234 - \frac{9}{128} \pi\right) \text{ ft}^2$$

$$\frac{9}{64} \pi \div 2 = \frac{9}{128} \pi \text{ ft}^2$$





P. 609 2-22 even
odds extra
credit