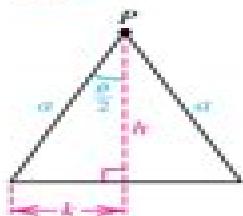


Figure 5



SOLUTION From Figure 5 we see that the altitude from point P bisects θ and that $A = \frac{1}{2}(2k)h = kh$. Thus, we have the following, where $\theta/2$ is an acute angle:

$$\begin{aligned}\sin \frac{\theta}{2} &= \frac{k}{a} & \cos \frac{\theta}{2} &= \frac{h}{a} && \text{see Figure 5} \\ k &= a \sin \frac{\theta}{2} & h &= a \cos \frac{\theta}{2} && \text{solve for } k \text{ and } h\end{aligned}$$

We next find the area:

$$\begin{aligned}A &= a^2 \sin \frac{\theta}{2} \cos \frac{\theta}{2} && \text{substitute in } A = kh && (*) \\ &= a^2 \sqrt{\frac{1 - \cos \theta}{2}} \sqrt{\frac{1 + \cos \theta}{2}} && \text{half-angle formulas with } \theta/2 \text{ in quadrant I} \\ &= a^2 \sqrt{\frac{1 - \cos^2 \theta}{4}} && \text{law of radicals} \\ &= a^2 \sqrt{\frac{\sin^2 \theta}{4}} && \sin^2 \theta + \cos^2 \theta = 1 \\ &= \frac{1}{2}a^2 |\sin \theta| && \text{take the square root} \\ &= \frac{1}{2}a^2 \sin \theta && \sin \theta > 0 \text{ for } 0^\circ < \theta < 180^\circ\end{aligned}$$

Another method for simplifying $(*)$ is to write the double-angle formula for the sine, $\sin 2u = 2 \sin u \cos u$, as

$$\sin u \cos u = \frac{1}{2} \sin 2u \quad (**)$$

and proceed as follows:

$$\begin{aligned}A &= a^2 \sin \frac{\theta}{2} \cos \frac{\theta}{2} && \text{substitute in } A = kh \\ &= a^2 \cdot \frac{1}{2} \sin \left(2 \cdot \frac{\theta}{2} \right) && \text{let } u = \frac{\theta}{2} \text{ in } (**), \\ &= \frac{1}{2}a^2 \sin \theta && \text{simplify}\end{aligned}$$

7.4 Exercises

Exer. 1–4: Find the exact values of $\sin 2\theta$, $\cos 2\theta$, and $\tan 2\theta$ for the given values of θ .

1 $\cos \theta = \frac{3}{5}$; $0^\circ < \theta < 90^\circ$

2 $\cos \theta = \frac{4}{5}$; $180^\circ < \theta < 270^\circ$

3 $\sec \theta = -3$; $90^\circ < \theta < 180^\circ$

4 $\sin \theta = -\frac{1}{5}$; $270^\circ < \theta < 360^\circ$

Exer. 5–8: Find the exact values of $\sin(\theta/2)$, $\cos(\theta/2)$, and $\tan(\theta/2)$ for the given conditions.

5 $\sec \theta = \frac{5}{4}$; $0^\circ < \theta < 90^\circ$

6 $\csc \theta = -\frac{5}{3}$; $-90^\circ < \theta < 0^\circ$

7 $\tan \theta = 1$; $-180^\circ < \theta < -90^\circ$

8 $\sec \theta = -4$; $180^\circ < \theta < 270^\circ$

Algebra Trigonometry And Analytic Geometry

Earl Swokowski, Jeffery A. Cole



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