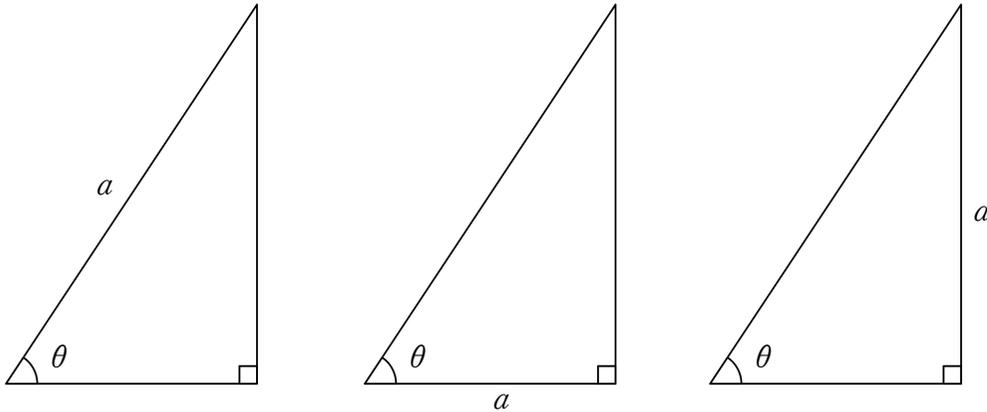
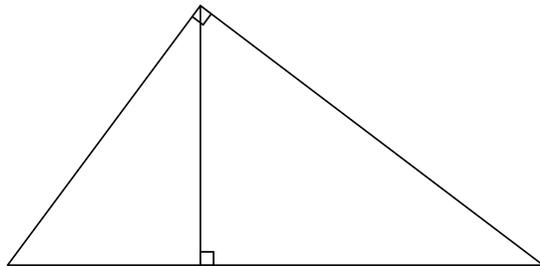


직각삼각형

#삼각비

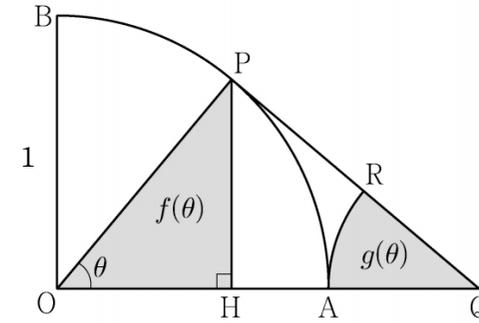


$o + x = 90^\circ$ #답음

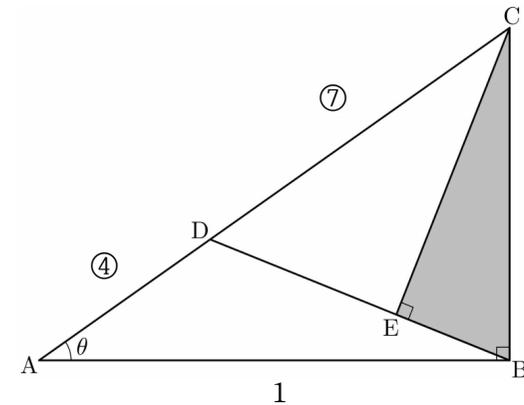


★핵심은 각의 크기, 변의 길이를 삼각함수로 나타내기

20200920가

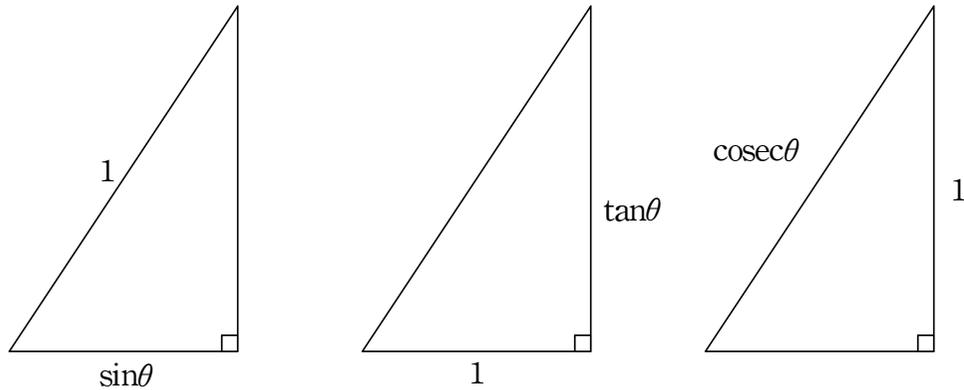


20200828사관가



직각삼각형

#피타고라스



#특수각

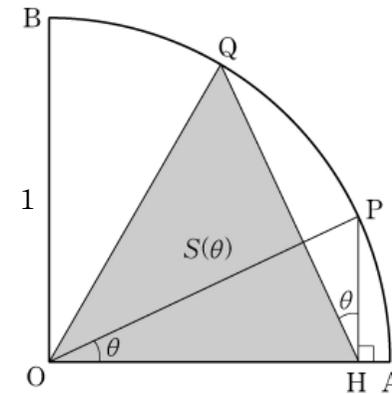
$$3^2 + 4^2 = 5^2$$

$$5^2 + 12^2 = 13^2$$

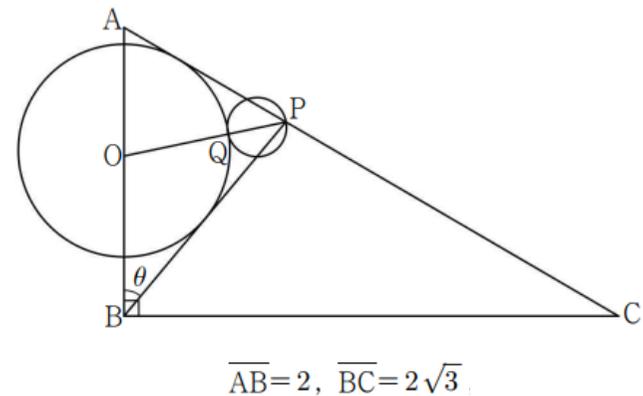
$$\frac{\pi}{4} \rightarrow 1:1:\sqrt{2}$$

$$\frac{\pi}{6} \rightarrow 1:\sqrt{3}:2$$

20190616가

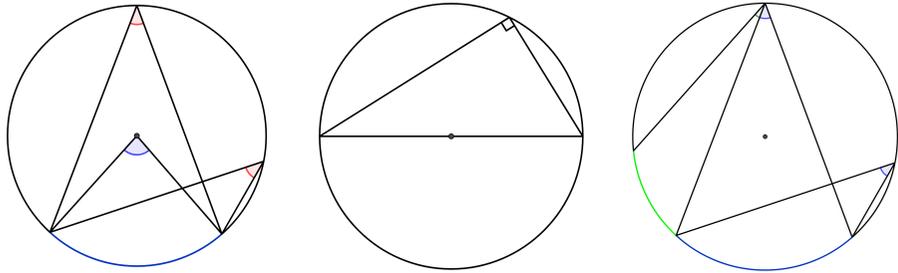


20180820사관가

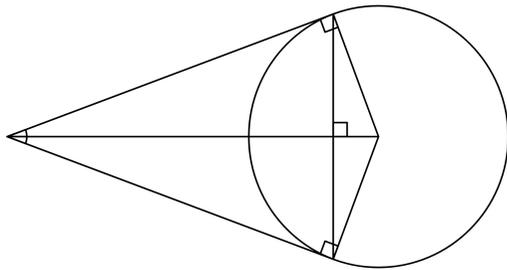


원 \rightarrow 중심과 반지름 보조선

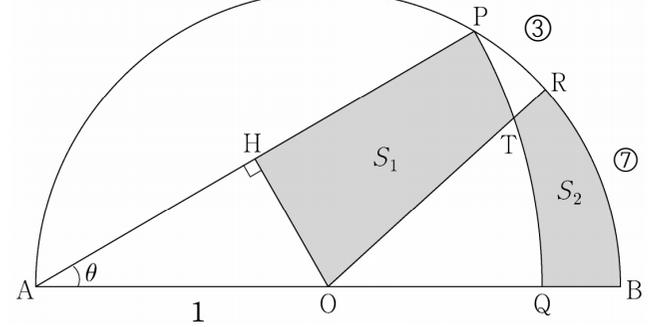
#원주각 일정 #2 \times 원주각 = 중심각 #원주각 \propto 호



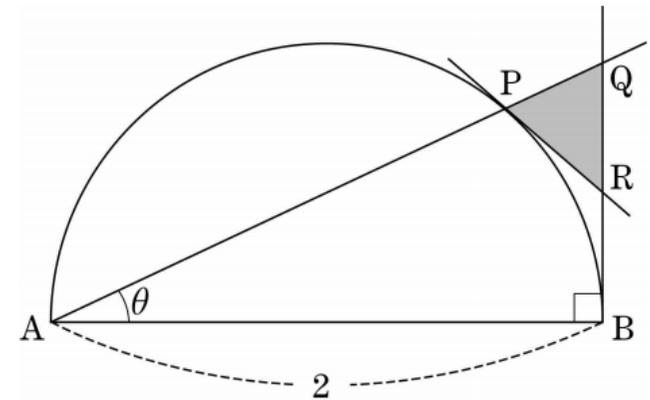
#원의 밖의 한 점에서 그은 접선



20200628가

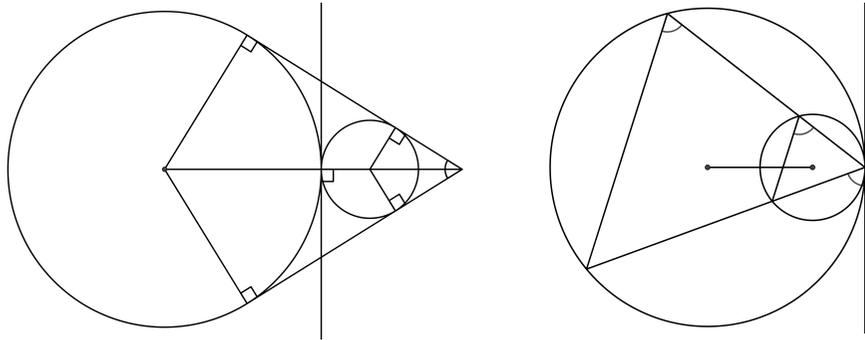


20130321B

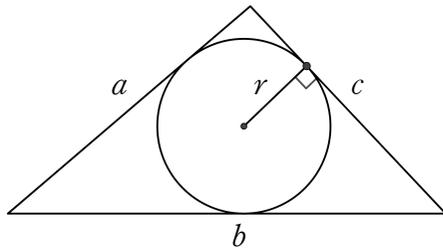


원 \rightarrow 중심과 반지름 보조선

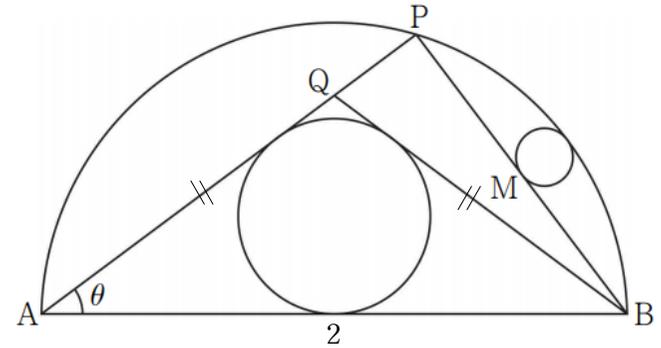
#외접하는 두 원 #내접하는 두 원



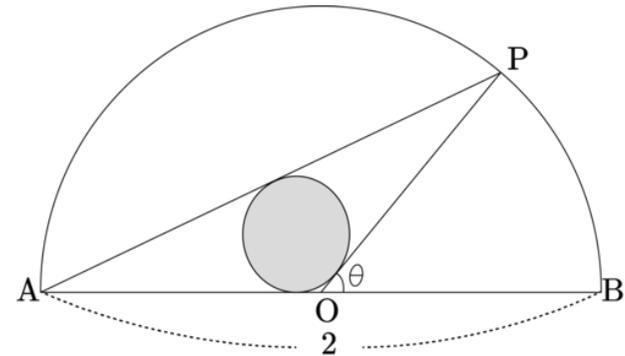
#삼각형에 내접하는 원의 반지름



20160429가

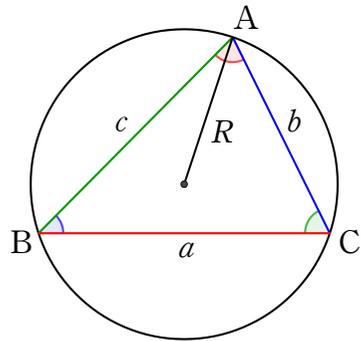


20120320가



삼각형

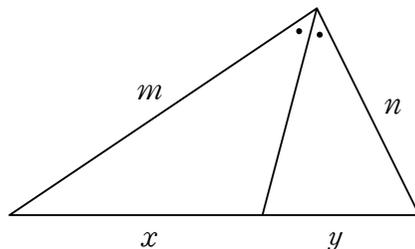
#사인법칙 #코사인법칙



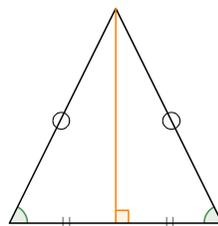
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

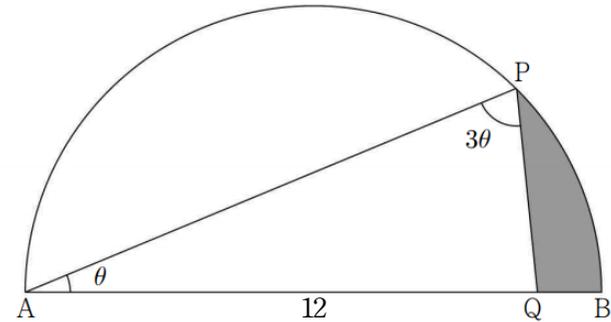
#내각이등분선 #이등변삼각형 → 수직이등분선



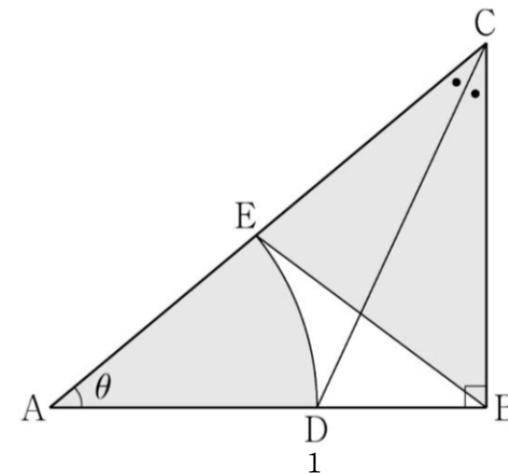
$$m:n = x:y$$



20150729B



20191118가



극한값의 계산

#극한값

$$\lim_{x \rightarrow 0} \frac{\sin x}{x} =$$

$$\lim_{x \rightarrow 0} \frac{\tan x}{x} =$$

$$\lim_{x \rightarrow 0} \frac{1 - \cos^2 x}{x^2} =$$

$$\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2} =$$

#각 변환

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

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

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot\theta$$

$$\sin(\pi - \theta) = \sin\theta$$

$$\cos(\pi - \theta) = -\cos\theta$$

$$\tan(\pi - \theta) = -\tan\theta$$

≡

#근사

$x \rightarrow 0$ 일 때, $f(x) \rightarrow 0$ 이면

$$\sin f(x) \rightarrow$$

$$\tan f(x) \rightarrow$$

$$1 - \cos f(x) \rightarrow$$

#덧셈정리

$$\sin(\alpha - \beta) = \sin\alpha\cos\beta - \cos\alpha\sin\beta$$

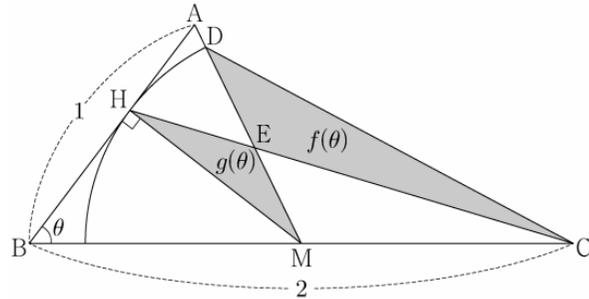
$$\cos(\alpha - \beta) = \cos\alpha\cos\beta + \sin\alpha\sin\beta$$

$$\tan(\alpha - \beta) = \frac{\tan\alpha - \tan\beta}{1 + \tan\alpha\tan\beta}$$

$$\lim_{\theta \rightarrow \frac{\pi}{3}} \frac{\sqrt{3}\cos\theta - \sin\theta}{\frac{\pi}{3} - \theta}$$

$$\lim_{\theta \rightarrow \frac{\pi}{4}} \frac{1 - \tan\theta}{\frac{\pi}{4} - \theta}$$

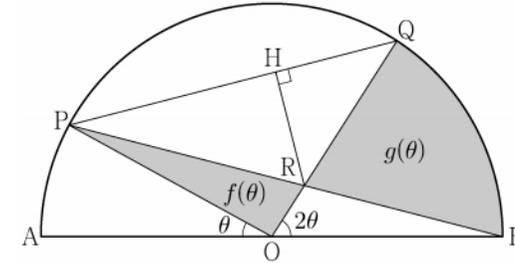
20210628가



$\lim_{\theta \rightarrow 0^+} \frac{f(\theta) - g(\theta)}{\theta^3} = a$ 일 때, $80a$ 의 값을 구하시오.

20210928가

길이가 2인 선분 AB를 지름으로 하는 반원



$\lim_{\theta \rightarrow 0^+} \frac{f(\theta) + g(\theta)}{\overline{RH}} = \frac{q}{p}$ 이다. $p+q$ 의 값을 구하시오.