

삼극사기 정오표 version2.

(1쇄(분홍색 글씨)이신 분들은 정오표 1과 2를 모두 참조 바랍니다)

학습에 차질을 드려 죄송합니다.

단순 오타가 주인지라 전체적인 방향에는 지장이 없을 것이라고 생각합니다.

해설 중 설명이 모호한 것에 대한 설명을 추가하거나 교체했으니,  
오타가 없던 문항에 대해서도 정오표를 확인해주시기 바랍니다.

질문 >>> <https://cafe.naver.com/spreadeffect>

목차 심화편 심화개념 3 ‘답 차제에’ -> ‘답 자체에’로 수정

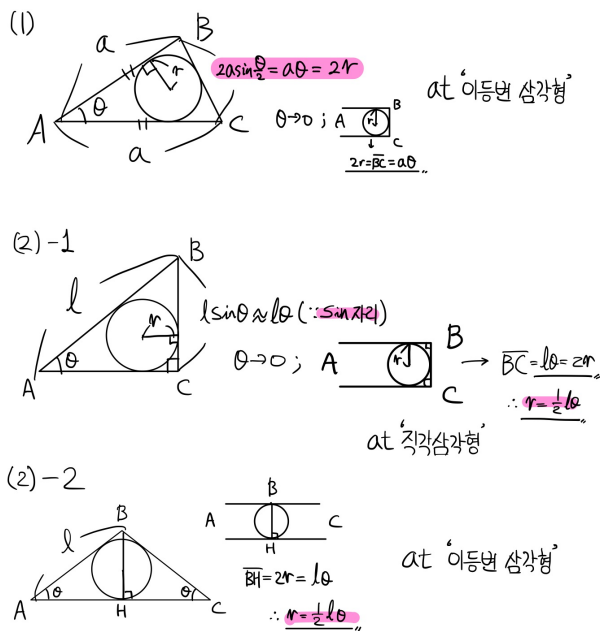
p. 7 밑에서 6번째 줄 ‘그레서’-> ‘그래서’

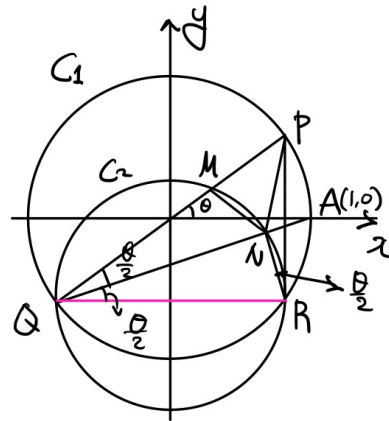
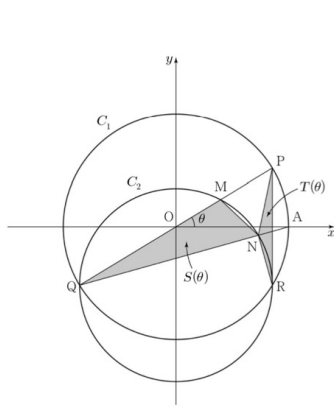
p. 12 박스 안의 4번 OQ를  $\overline{QR}$ 로 수정

p. 14 박스 안의 3) 에 있는 ‘\_반지름’을 ‘(반지름)’으로 수정

p.29 Tip에 대한 설명이 있는 박스 말미에 ‘앞으로 많이 나오니 반드시 학습 바람’ 추가.

p.30 그림 교체





$$\angle POA = \theta \rightarrow \angle POR = \theta / \overline{PQ} = 2 \rightarrow \overline{QR} = 2 \rightarrow \overline{PR} = 2\theta$$

$$\angle POA = \angle AQR = \frac{\theta}{2} (\because \text{중심각}), \angle QNR = \frac{\pi}{2} (\because QR \perp \text{지름 of } C_2)$$

$$\angle QNR = \frac{\pi}{2} (\because \text{지름}) \oplus \overline{QN} = 2 \cos \frac{\theta}{2} \approx 2$$

$$\overline{NR} = \frac{\theta}{2} \times 2 = \theta \oplus \angle NRP = \frac{\theta}{2}$$

$$\overline{QR} \approx \overline{QM} = 2$$

$$T(\theta) = \frac{1}{2} \times 2\theta \times \theta \times \frac{\theta}{2} = \frac{1}{2} \theta^3$$

$\overline{PR} \quad \overline{NR} \quad \sin(\angle NRP)$

$$S(\theta) = \frac{1}{2} \times 2 \times 2 \times \frac{\theta}{2} = \theta$$

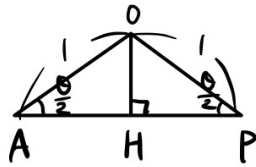
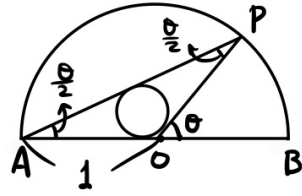
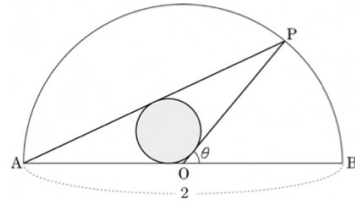
$\overline{QN} \quad \overline{QM} \quad \sin(\angle QNM)$

$$\therefore \lim_{\theta \rightarrow 0} \frac{\theta^3 \times S(\theta)}{T(\theta)} = \boxed{2}$$

답



p. 101 해설 교체



;  $\overline{OH} = 2r$  ( $\because$  이등변 삼각형의 성질)

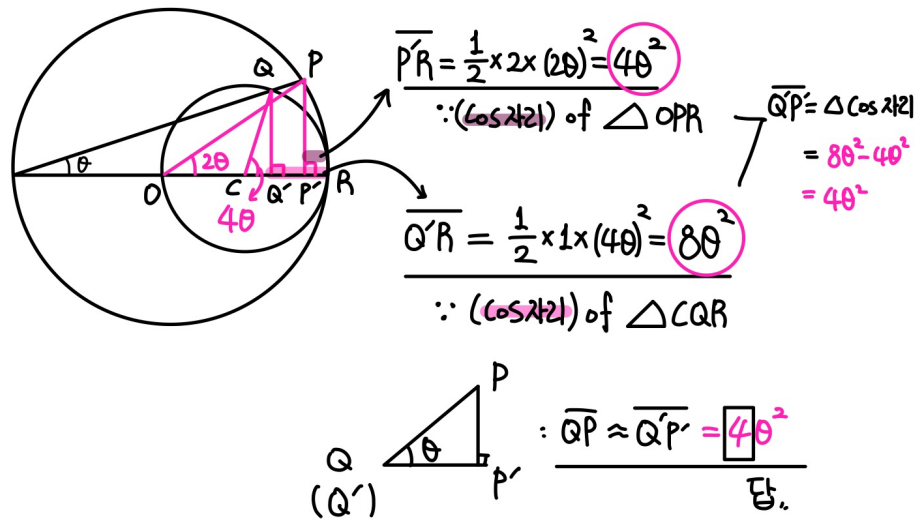
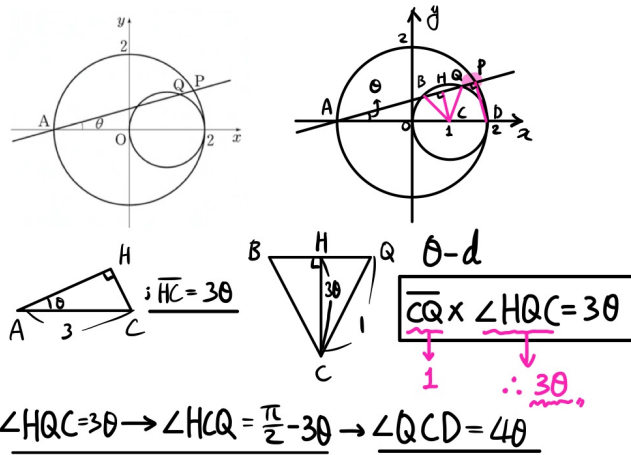
$$= \frac{\theta}{2} \rightarrow n = \frac{\theta}{4}$$

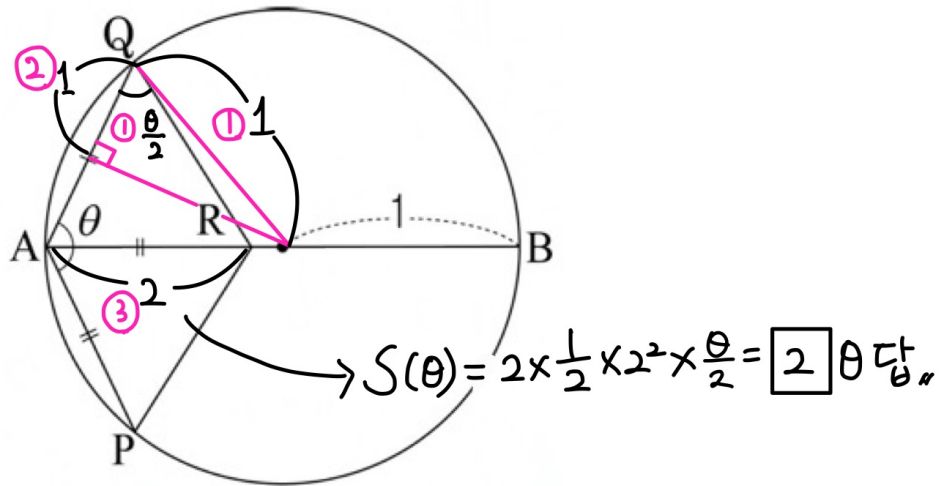
$$S(\theta) = \frac{\theta^2}{16} \pi$$

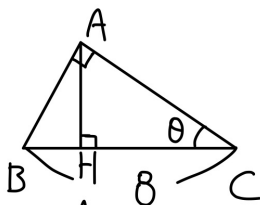
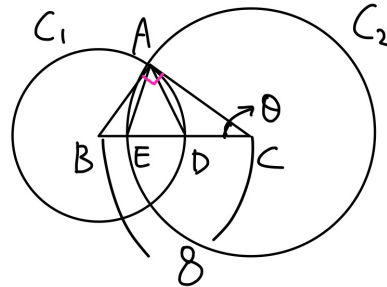
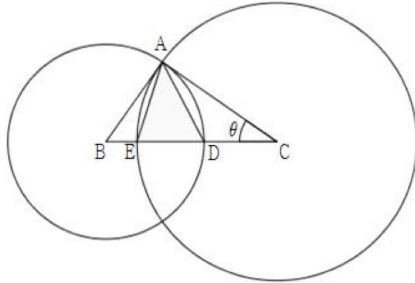
$$\lim_{\theta \rightarrow 0} \frac{S(\theta)}{\theta^2} = \boxed{\frac{\pi}{16}}$$

답

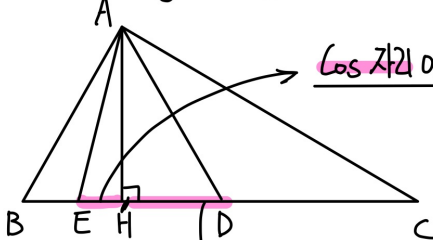
p. 103 해설 그림 교체





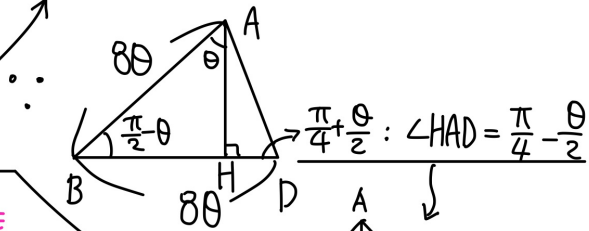


$$\begin{aligned} \overline{AB} &= 80 \\ \overline{AC} &\approx 8 \end{aligned} \rightarrow \overline{AH} = 8\theta \quad (\triangle AED \text{의 높이})$$



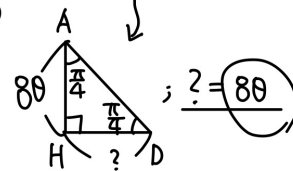
$$\cos \text{거리 of } \triangle AEC; \overline{HE} = \frac{1}{2} \times 8 \times \theta^2$$

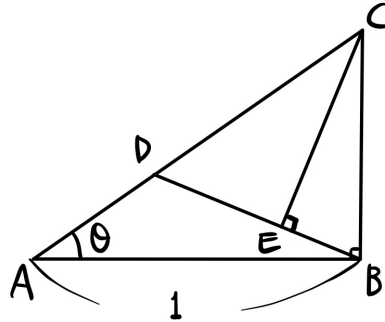
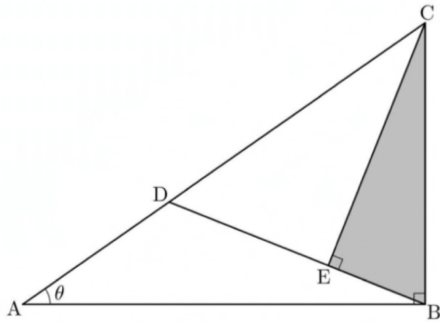
$\cos$ 거리 of  $\triangle ABD \sim$  라고 하면 안됨 ( $\because$  각!!)



$$\therefore \triangle AED = \frac{1}{2} \times \overline{AH} \times (\overline{HD} + \overline{HE})$$

$$\approx 32\theta^2 \rightarrow \lim_{\theta \rightarrow 0} \frac{S(\theta)}{\theta^2} = \boxed{32} \text{ 답}$$

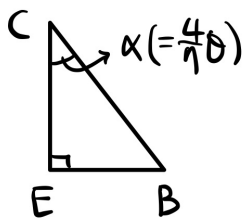




$$4:7 \leadsto \overline{AD} = \frac{4}{11}, \overline{DC} = \frac{7}{11} (\because \overline{AC} \approx 1)$$

$$\begin{array}{c} \begin{array}{c} \text{Diagram of } \triangle ABC \text{ with } \angle A = \theta, \angle B = \alpha, \text{ and side } AB = 1. \end{array} \end{array} ; 4:7 = \alpha:\theta \leadsto \alpha = \frac{4}{7}\theta \quad \text{by AtD}$$

$$\underline{\therefore \angle DBA = \angle BCE = \alpha} //$$



$$\overline{BC} = 1 \times \theta = \theta \leadsto S_{(B)} = \frac{1}{2} \times \theta \times \frac{4}{7} \theta^2 //$$

$$= \boxed{\frac{2}{7} \theta^3}$$

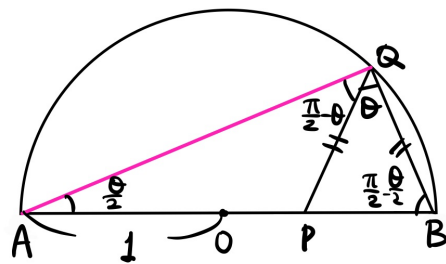
$$\downarrow$$

$$\boxed{9}$$

g



해설지 (분권되어 있는 해설지) 14번이 누락되었어서 추가  
(실전 유제 그 이후 번호가 다 밀려서 수정)



A right-angled triangle  $AQB$  is shown with the right angle at vertex  $Q$ . The hypotenuse  $AB$  is labeled with length  $2$ . The angle at vertex  $A$  is labeled  $\frac{\theta}{2}$ .

$$\therefore \underline{\overline{BQ} = 2\sin\frac{\theta}{2}} \leadsto \underline{S(\theta) = \frac{1}{2} \times (2\sin\frac{\theta}{2})^2 \times \sin\theta}$$

$$\approx \frac{1}{2} \theta^3$$

$\boxed{\frac{1}{2}}$  g.