

Nobae 도형가이드 핵심정리



DATE _____

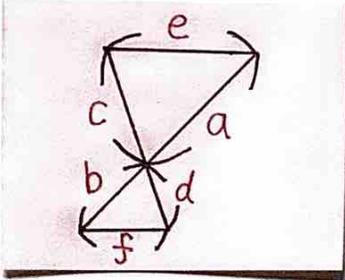
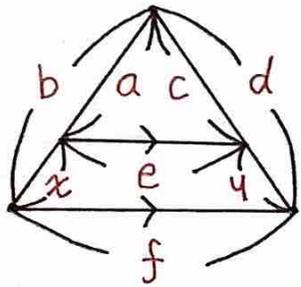
REVIEW

#1. 닮음

▶ 닮은 두 평면도형에서 대응각의 크기가 같고 대응변의 길이의 비가 같다

* 닮음비가 $m:n$ 일때 넓이비는 $m^2:n^2$

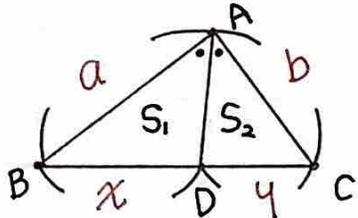
#2. 삼각형에서 평행선과 선분의 비율



$$a:b=c:d=e:f$$

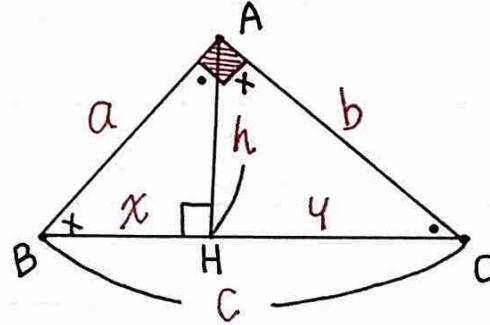
$$a:c=b:d=x:y$$

#4. 삼각형의 각의 이등분선



$$a:b=x:y=S_1:S_2$$

#7. 직각삼각형의 닮음



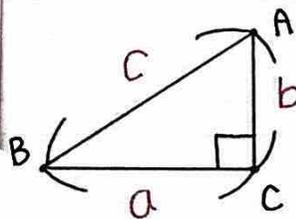
$$\textcircled{1} ab=ch$$

$$\textcircled{2} h^2=xy$$

$$\textcircled{3} x:y=a^2:b^2$$

$$\textcircled{4} a^2=xc \quad b^2=yc$$

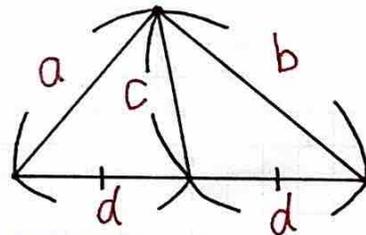
#5. 피타고라스의 정리



$$c^2=a^2+b^2$$

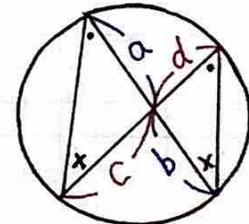
$$c=\sqrt{a^2+b^2}$$

#8. 중선정리

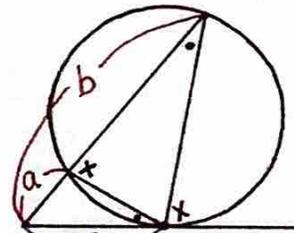


$$a^2+b^2=2(c^2+d^2)$$

#9. 할선정리

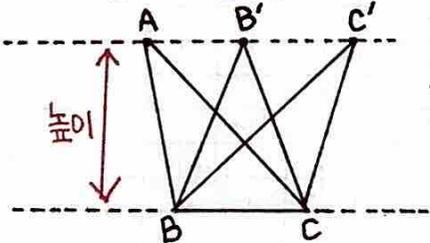


$$cxd=axb$$



$$c^2=axb$$

#3. 평행선과 삼각형의 넓이



즉, 밑변이 공통이면
넓이는 높이의 비이다
또 높이가 공통이면
넓이는 밑변의 비이다.

$\Delta ABC, B'BC, C'BC$ 의 넓이는 모두 같다

#6. 삼각형의 특수각

