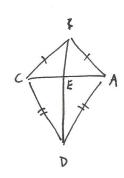
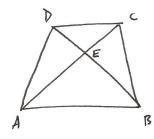
1.



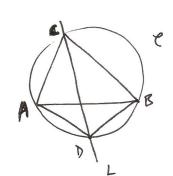
1.

2.



$$= \frac{|AE|}{|(E|)|} = \frac{|BE|}{|DE|} = \frac{|AE| \cdot |DE|}{|AE| \cdot |DE|} = |BE| \cdot |(E|).$$

3



 $\angle ACD = \angle ABD$ (agles) ubladed by a chard) $\angle DCB = \angle DAB$ (.....)

: (ADI = IBD) (irsceles & theorem)

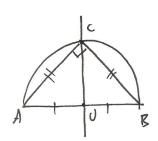
4. a. 1 Draw the perpedicular biscitar Lof AB

?. Draw the rirde & with center the midpoint Oof AB (the interection of L & AB) and radius 10A1=10B1. Let (be / the interestian parts of C LL

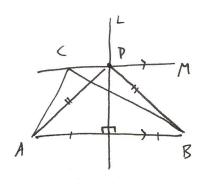
The LA(B= T/2 (angle in a semicircle) and IA(1= IBC) ((lies on perpedicular bitelier

(isosceles (agle mod
$$U$$
)

(agle mod U)



7



- 1. Construct the populations breather L of AB
- 2 Castract the parallelline M to AB through C.

Let D = LAM be the intersetion point of LAM.

THE DEL => IADI = IBDI

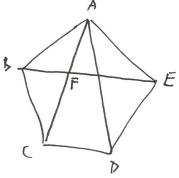
And Aren (DABD) = Aren (DABC)

heraune they have the sare base IABI 4 perpendicular height. a.

S. a. The angle swo of a pertagon equals (5-2). TI = 3TT.

So ead agle in a regular pertagar equals 371/5.

5.



DABC is isoseles (IABI = IBCI)

>0
$$\angle BA(= \angle B(A= \frac{1}{2}(TI-\angle ABC)=\frac{1}{2}(TI-\overline{ST}_{5})=\overline{T}_{5}$$

isosæla triagle agle sur of triagle
Kevren

Similarly, < EAD = < EDA = T/5, & LABE = LAEB = T/5

Finally,
$$\angle AEF = \angle AEB = T/S$$

$$4 \angle FAE = 3T/S - T/S = 2T/S$$

$$50 \angle AFE = T - T/S - 2T/S = 2T/S.$$

$$agk in d triagle$$

Thus DAFE ~ DCDA 1.