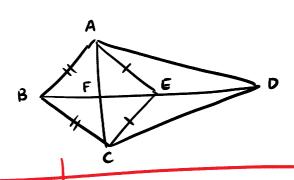
## Section 4.4

pg 189: <u>12, 15, 16, 19, 21</u>

#12 AB ≅ BC AE ≅ EC

Prove: AD = DC



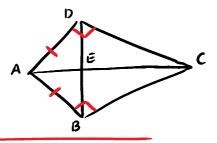
- 1. AB = BC
- 2. AE º EC
- 3. BD is the L bis. AC
- 4. AD ≃ DC

- 1. Given
- 2. Given
- 3. If 2 pts are equidistants from the endpts. of a seg → determine ⊥ bis of the seg.
- 4. If a point is on the L bis. of a seg it is equidistant from the endpts of the seg.

#15 Given: #ADC and \*ABC are L's

AB = AD

Conc: AC 1 bis. BD

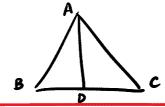


- 1. ¥ADC and ¥ABC are 11.5
- 2. AB = AO L
- 3. AC = AC H
- 4. AADC Z AABC
- 5. DC = BC
- 6 AC 1 bis. BD

- 1. Given
- 2. Given
- 3. ReHexive prop
- 4. HL
- 5. CPCTC
- 6. If 2 pts are equidistant from the endpts of a seg -) determine I bis of the seg

#16 DABC is isos will base BC AD median to BC

Prove: AD alt. to BC

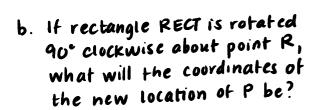


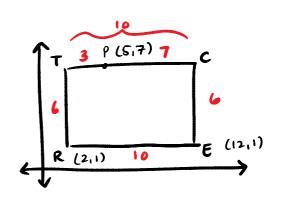
- 1. A ABC is isos w/ base BC
- 2. AB ZAC
- 3. AD median to BC
- 4 BO = DC
- 5. AD 1 bisector to BC
- 6. AD alt to BC

- I. Given
- 2. If a ∆ is isos → Legs =
- 3. Given
- 4. If a seg is a med → divides opp side into 2 = segs
- 5. If 2 pts are equidistant from the endpts of a seg + determine the L bisector of the seg
- 6. If a seg. from a vertex of a \( \Delta \) to the opp side is \( \Delta \) altitude

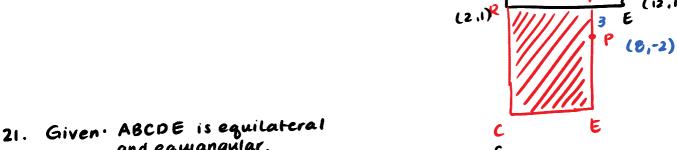
On the rectangle shown, how much #19 farther is the trip from P to T to R to E than the trip from P to C to E

$$3+6+10=19$$
 $7+6=13$ 
6 units





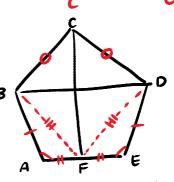
(12,1)



and equiangular.

F is the midpt of AE

Prove: FC is the 1 bisector of BD



- 1. ABCDE is equilateral and equiangular
- 2. AB = BC = CD = DE
- 3. 4 A= 4 E
- 4. Draw BF and DF
- 5. F is the midpt. of AE
- 6. AF FE
- 7. A BAF Z A DEF
- & BF = DF
- 9 FC 1 bis. BO

- 1. Given
- 2. If a polygon is equilateral → all sides =
- 3. If a polygon is equiangular → all 215 =
- 4. 2 pts determine a line
- 5. Given
- 6. If apt is a midpt → divides the seginto 2 = segs
- 7. 5AS
- 8. CPCTC
- 9. If 2 pts are equidistant from the endpts of a seg -) determine the 1 bisector of the seg