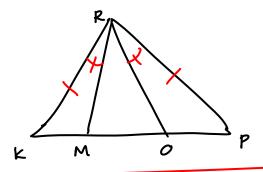
Section 3.7 pgs. 152 - 155 #2, 5, 8, 12, 15, 19, 22, 25

#2 Given: XKRM = XPRO

KR = PR

Prove: RM = RO



- 1. ¥KRM ≅ ¥ PRO €
- 2. KR = PR S
- 3. 4K=4P A
- 4. DRKM Z DRPO
- 5. RM = RO

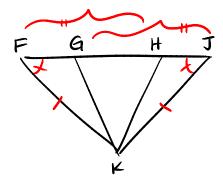
- 1-Given
- 2. Given
- 3. IF & -> A
- 4. ASA (1,2,3)

5. CPCTC

#5 Given: FH = GJ

Δ FKJ is isosceles with FK = JK

Prove: DFKH = DJKG



Statements

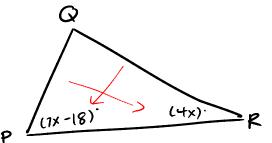
1) FH = GJ (5)

- 2) AFKJ isos, FK = JK (5)
- 3) < HFK = < GJK (A)
- 4) A FKH = AJKG

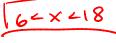
Reasons

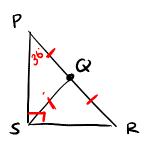
- 1.) Given
- 2.) Given
- 3) If 公 つ A
- 4.) SAS (1,3,2)
- #8 Given: m2P+m2R218D PQ2QR

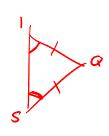
write an inequality to describe the restrictions on x.



X 418







G GJ and OK are I to HM Prove: AFHM is isosceles

Statements

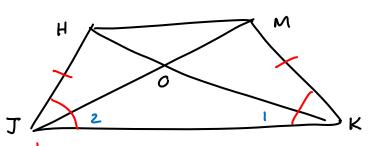
- 5.) GJ and OK are I HM
- 6) LGJH is a right &
- 7.) < OKM is a right &
- 8.) ∠GJH = ∠OKM (A)
- 9.) HT = KM
- 10.) A HJG = AMKO
- 11) 2H = 2M
- 12 A FHM is isosceles

Reasons

- 1.) Given
- 2) Given
- 3.) Given
- 4) Transitive (If 2 segs are = to the same seg > segs =)
- 5.) Given
- 6) If 2 segs are 1 > form a right &
- 7) Same as 6.
- 8.) If 2 xis are right xis → xis ≅
- 9) If the same seg. is subtracted from
- segs -> diffs. are =
- III) CPCTC
- 12.) If a Dhas at least 2 = x15 → D is isosceles

¥HJK≅ ∡MKJ

Conclusion: DJOK is isos.



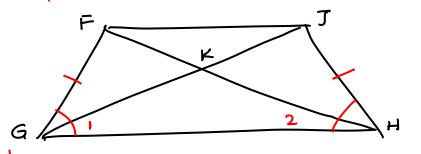
- I. HJ = MK S
- 2. ¥HJK≅ ¥MKJ 🙆
- 3. JKZJK S
- 4. ∆HJK≅∆MKJ
- s. 41 = 42
- 6. AJOK is isos.

- #22 Given: FG = TH

*FGH = * JHG

Conc: AFKJ is isos.

- 1. Given
- 2. Given
- 3. Reflexive Prop.
- 4. SAS (1,2,3)
- 5. CPCTC
- 6. If at least 2 x is of a △ are $\stackrel{\sim}{=} \rightarrow \Delta$ is isos.



- 1. FG = JH S
- 2. 4 FGH ≅ 4JHG 🙆
- 3. GH = GH S
- 4. △FGH≅ △JHG
- 5. 41=42
- 6. GK & HK
- 7. GJ = FH
- 8. KJ Z FK
- 9. AFKG is isos.

- 1. Given
- 2. Given
- 3. Reflexive prop.
- 4. SAS (1,2,3)
- S. CPCTC
- 6. IF △ → △
- 7. CPCTC
- e. If = segs are subtracted from = segs -> diffs. are =
- 9. If at least 2 sides of a D are = > 1 is 1505.

#25
$$\triangle$$
 FED is equilateral $\widehat{GE} \perp \widehat{DE}$
 $m \neq FEG = x + y$
 $m \neq D = 3x - 6$
 $m \neq F = 6y + 12$

$$3x-6=6y+12$$

 $3x-6y=18$

$$x+y+3x-6=90$$

 $4x+y=96$

$$3x-6y=18 \implies 3x-6y=18$$

 $6(4x+y=96) \implies 24x+6y=576$
 $27x=594$
 $x=22$

$$4(22) + y = 96$$

 $88 + y = 96$
 $y = 8$