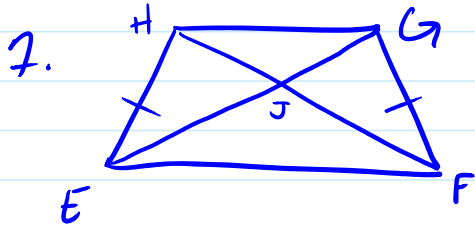


# 5.5 and 5.7 day 2

Thursday, December 02, 2010 7:05 AM

pg. 245 11, 21, 22, 25



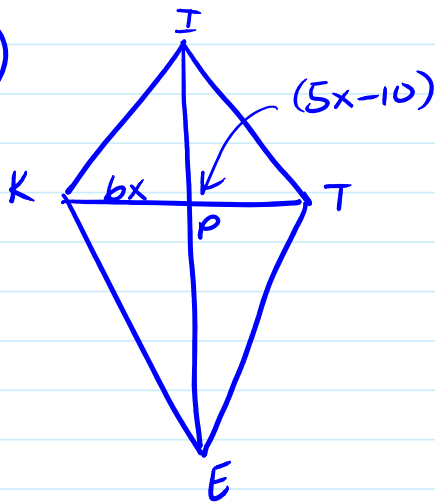
$$x + 5 + 2x - 1 = 13$$

$$3x + 4 = 13$$

$$x = 3$$

$$EJ = 8 \quad JG = 5 \quad HJ = 5$$

(11)

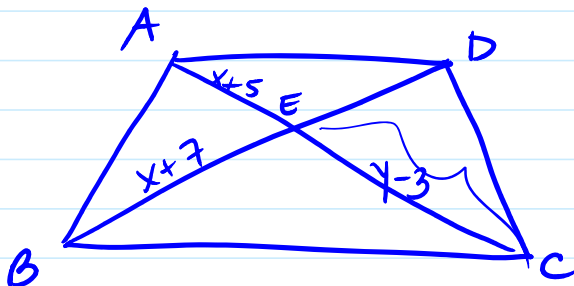


$$5x - 10 = 90$$

$$x = 20$$

$$KT = 240$$

(20)



$$x + 7 = y - 3 \Rightarrow x - y = -10$$

$$x + 5 + y - 3 = y + 4 \Rightarrow x = 2$$

$$x = 2, y = 12$$

$$AC = 16$$

21

$$2x + 30 = 20 + 3x$$

$$10 = x$$

But NO! since that would make a negative side

$$2x + 30 = 6 - 2x$$

$$4x = -24$$

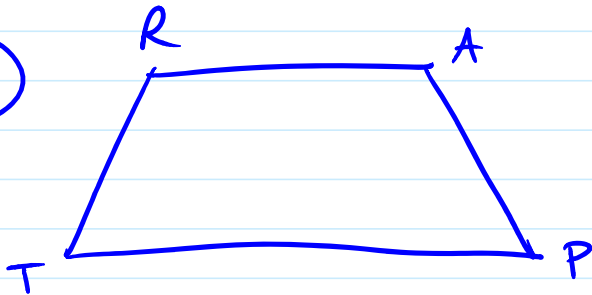
$$x = -6$$

So  $\overline{KI} \cong \overline{KE}$  and

$$\overline{IT} \cong \overline{ET}$$

25 100% !

28



$$2.43 + 5.12x = y$$

$$x + y = 180$$

$$x + 2.43 + 5.12x = 180$$

$$6.12x = 177.57$$

$$x = 29.0147$$

$$\angle A = 150.985 \dots^\circ$$

$$= 150^\circ 59' 7''$$

pg. 258 6, 12, 15, 18

- 6. A. Rhombus
- B. Square
- C. Rectangle

D. ISOS. trapezoid

- 13) A. Parallelogram  
 B. Trapezoid  
 C. ISOS trapezoid  
 D. Rectangle  
 E. Rectangle  
 F. Rhombus  
 G. Kite  
 H. Quadrilateral

15) Statements	Reasons	Diagram
1. PQRS is a $\square$ 2. A is the midpt of $\overline{QR}$ 3. $\overline{PA}$ bisects $\angle QPS$	1. 2. Given 3.	
4. $\overline{QA} \cong \overline{AR}$ 5. $\angle QPA \cong \angle APS$	4. Def. of midpt 5. Def. of bisect	
6. $\overline{PQ} \cong \overline{RS}$	6. If $\square \rightarrow$ opp sides $\cong$	
7. $\overline{QR} \parallel \overline{PS}$	7. If $\square \rightarrow$ opp sides $\parallel$	
8. $\angle QAP \cong \angle APS$	8. If $\parallel$ lines $\rightarrow$ alt. int. $\angle$ 's $\cong$	
9. $\angle QAP \cong \angle QPA$	9. Transitive	
10. $\overline{QA} \cong \overline{QP}$	10. If $\Delta \rightarrow \Delta$	
11. $\overline{AR} \cong \overline{RS}$	11. Transitive	
11.5 $\overline{AR} \cong \overline{RS}$ 12. $\angle RAS \cong \angle ASP$	11.5 If $\Delta \rightarrow \Delta$ 12. If $\parallel$ lines $\rightarrow$ alt. int. $\angle$ 's $\cong$	

- 11.5  $\overline{SA}$
- 12.  $\angle RSA \cong \angle ASP$
- 13.  $\angle RSA \cong \angle ASP$
- 14.  $\overline{SA}$  bisects  $\angle R$

- 11.5  $\angle R \rightarrow \Delta$
- 12. If  $\parallel$  lines  $\rightarrow$  alt. int  $\angle$ 's  $\cong$
- 13. Transitive
- 14. Def. of bisect

18) Statements

Reasons

- 1.  $\triangle ABC$
- 2. M is the midpt of  $\overline{AB}$
- 3. segments drawn from M parallel to  $\overline{AC}$  and  $\overline{BC}$
- 4.  $PMQC$  is a  $\square$
- 5.  $\overline{AM} \cong \overline{MB}$
- 6.  $\angle B \cong \angle AMP$   
 $\angle A \cong \angle BMQ$
- 7.  $\triangle MAP \cong \triangle BMQ$

- 1.
- 2. Given
- 3.
- 4. If opp sides  $\parallel \rightarrow \square$
- 5. Def. of midpt
- 6. If  $\parallel$  lines  $\rightarrow$  corr.  $\angle$ 's  $\cong$
- 7. ASA

