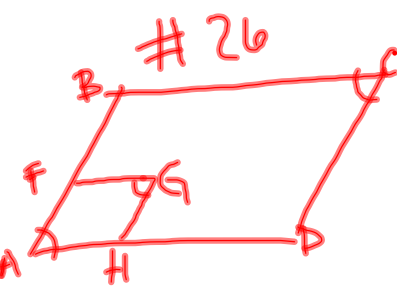


Statement	Reasons
1. ABCD and AFCH are parallelograms	1. given
2. $\angle A \cong \angle C$	2. opp. $\angle$ 's of $\square ABCD \cong \angle A$
3. $\angle A \cong \angle G$	3. opp. $\angle$ 's of $\square AFCH \cong \angle A$
4. $\angle C \cong \angle G$	5. Transitive $\cong$

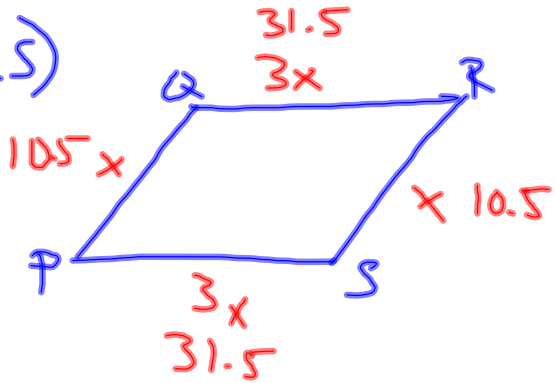


28.  $QR = 3(RS)$

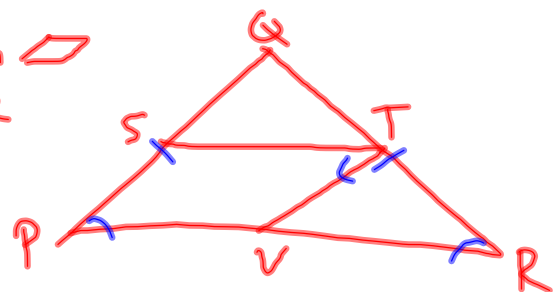
$$3x + 3x + x + x = 84$$

$$\frac{8x}{8} = \frac{84}{8}$$

$$x = 10.5$$



14. Given: PSTV is a  $\square$   
 $\overline{QP} \cong \overline{QR}$   
 Prove:  $\angle STV \cong \angle R$



Statement	Reason
1. PSTV is a $\square$	1. Given
2. $\angle STV \cong \angle P$	2. opp. $\angle$ 's of $\square$ are $\cong$
3. $\overline{QP} \cong \overline{QR}$	3. Given
4. $\angle P \cong \angle R$	4. Iso. $\Delta$ thm
5. $\angle STV \cong \angle R$	5. Tran. prop of $\cong$

Q-5+  
 6-10 ✓  
 11-19 -

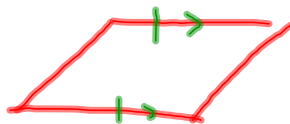
## 6.3 Conditions for parallelograms


### Theorems

6-3-1: if a quad has one pair of opp. sides that are  $\parallel$  &  $\cong$ , then it's




Ex:




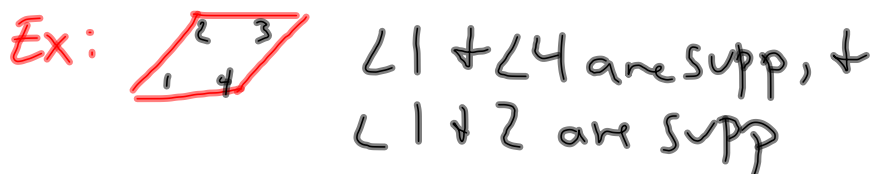
6-3-2: if a quad. has 2 pairs of  $\cong$  opp. sides, then it's a .



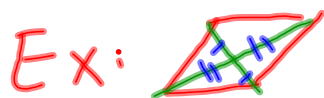
6-3-3: if a quad. has 2 pairs of  $\cong$  opp  $\angle$ 's, then it's a .



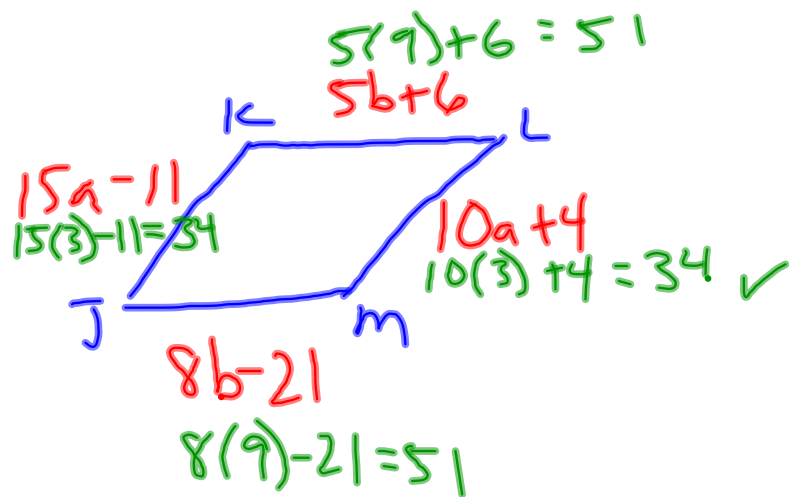
6-3-4: if a quad. has an  $\angle$  supplementary to both consecutive interior  $\angle$ 's, then it's a .



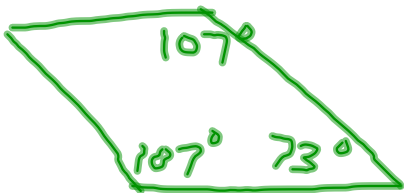
6-3-5: if the diagonals of a quad. bisect each other, then it's a .



Ex: show JKLM is a  $\square$   
for  $a = \underline{3}$  +  $b = \underline{9}$ .

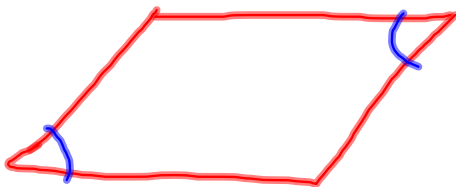


Determine if each quad is a 



Yes by 6-3-4

$$107 + 73 = 180^\circ$$



No

Hwi: p. 402

2-22 even, odds extra credit