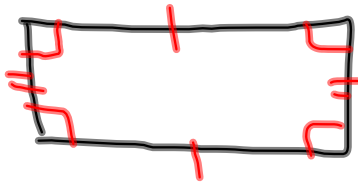




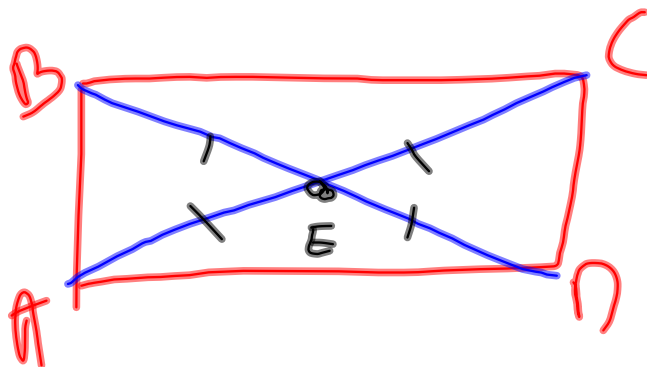
6.4 Special

Rectangle: a quad. with 4 rt. \angle 's.

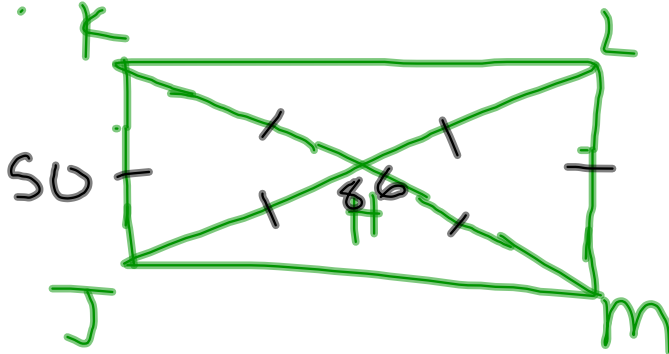


6-4-1: if a quad. is a rectangle,
then it is .

6-4-2: if a  is a rectangle, then its
diagonals are \cong



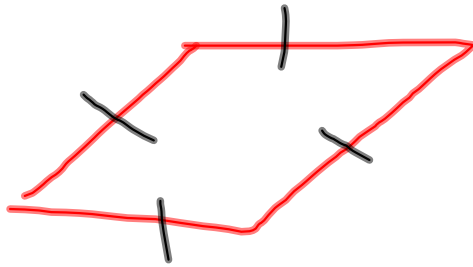
Ex: K



$$JK = 50 \quad JL = 86$$

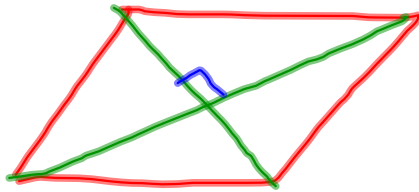
$$a) Lm = 50 \quad Hm = 43$$

rhombus: quad. with $4 \cong$ sides.

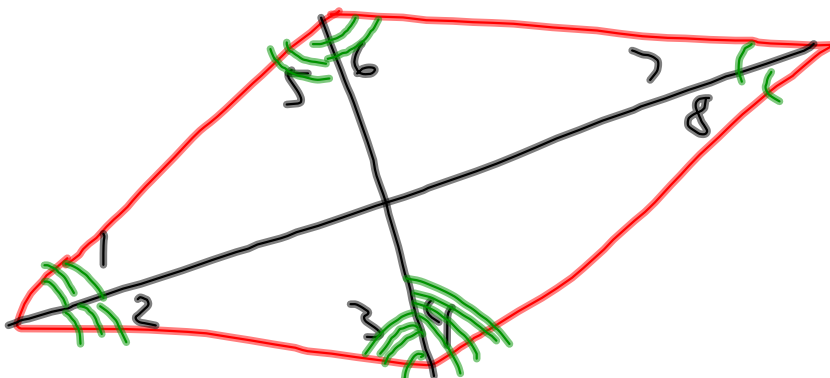


6-4-3: if a quad. is a rhombus,
then it is a \square .

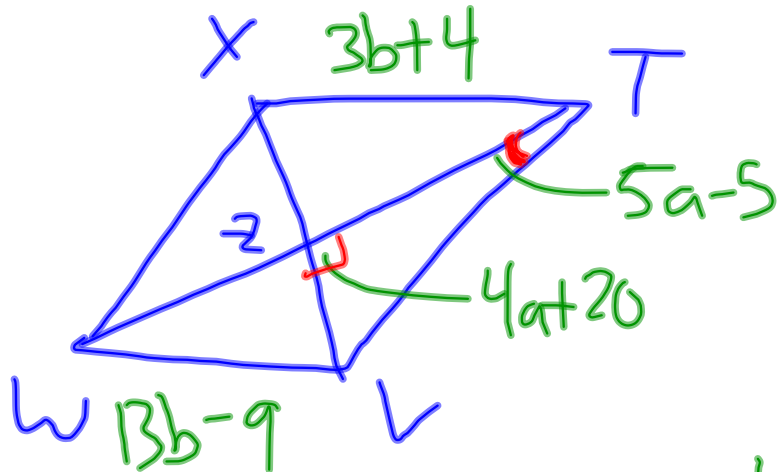
6-4-4: if a \square is a rhombus,
then its diagonals are \perp .



6-4-5: if a \square is a rhombus, then
each diagonal bisects a pair of opp \angle 's.



$I_x:$



$$\begin{array}{r}
 4a + 20 = 90 \\
 -20 \quad -20 \\
 \hline
 4a = 70 \\
 \frac{4a}{4} = \frac{70}{4}
 \end{array}$$

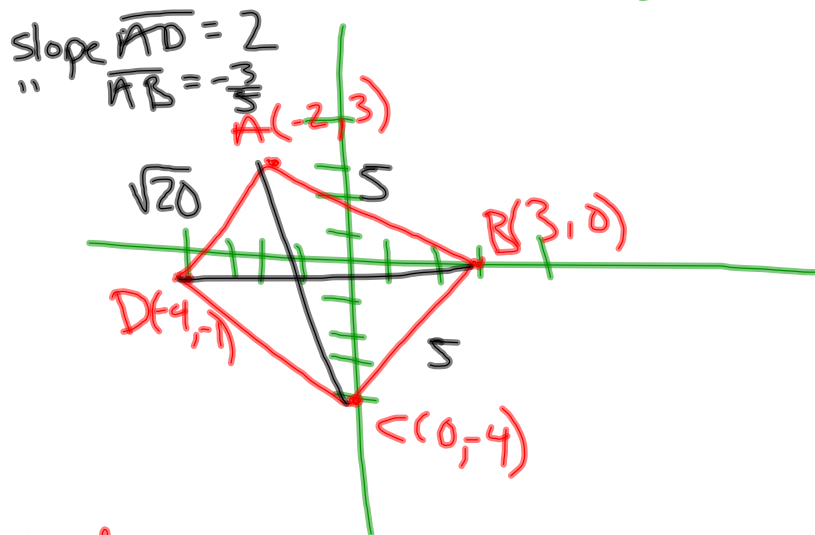
$a = 17.5$

$$m\angle VTZ$$

$$\begin{aligned}
 &= 5a - 5 \\
 &= 5(17.5) - 5 \\
 &= 82.5^\circ
 \end{aligned}$$

Square: a quad. with 4 \cong sides and 4 rt. \angle 's.

Show the following is a square



a) diagonals are \cong .

AC $A(-2, 3) C(0, -4)$ $BD (3, 0) (-4, -1)$

b) slope of AC + BD

AC =

BD =

c) midpt. of AC + BD

AC

BD

Hw: p. 412

2-30 even, 35

odds extra credit