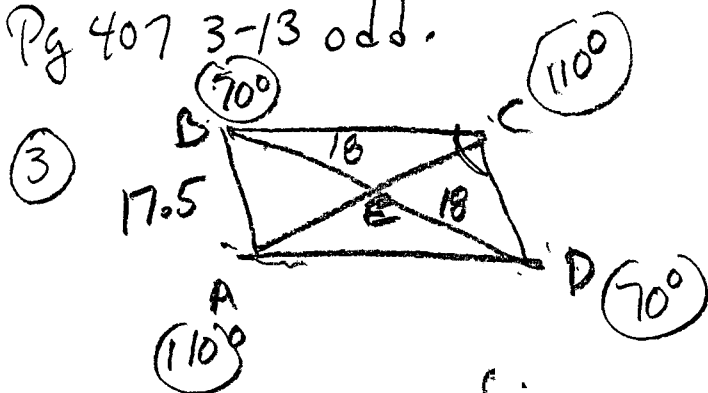


Geometry Weds. 2-20-13 CLASS NOTES

Homework review.

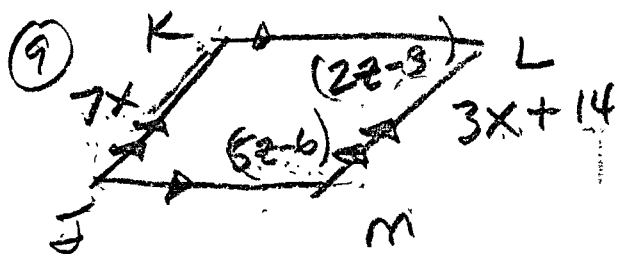
Pg 407 3-13 odd.



BD ? = $\boxed{36}$

⑤ BE ? = $\boxed{18}$

⑦ $m\angle ADC = \boxed{70^\circ}$



NOT KIDDING

$JK = ?$

$7x = 3x + 14$

$\frac{4x}{4} = \frac{14}{4} = \frac{7}{2}$

$\therefore JK \Rightarrow 7 \cdot \frac{7}{2} = \frac{49}{2} = \boxed{24.5} \quad x = \frac{7}{2}$

⑪ $m\angle L \Rightarrow (2z-3) + (5z-6) = 180$

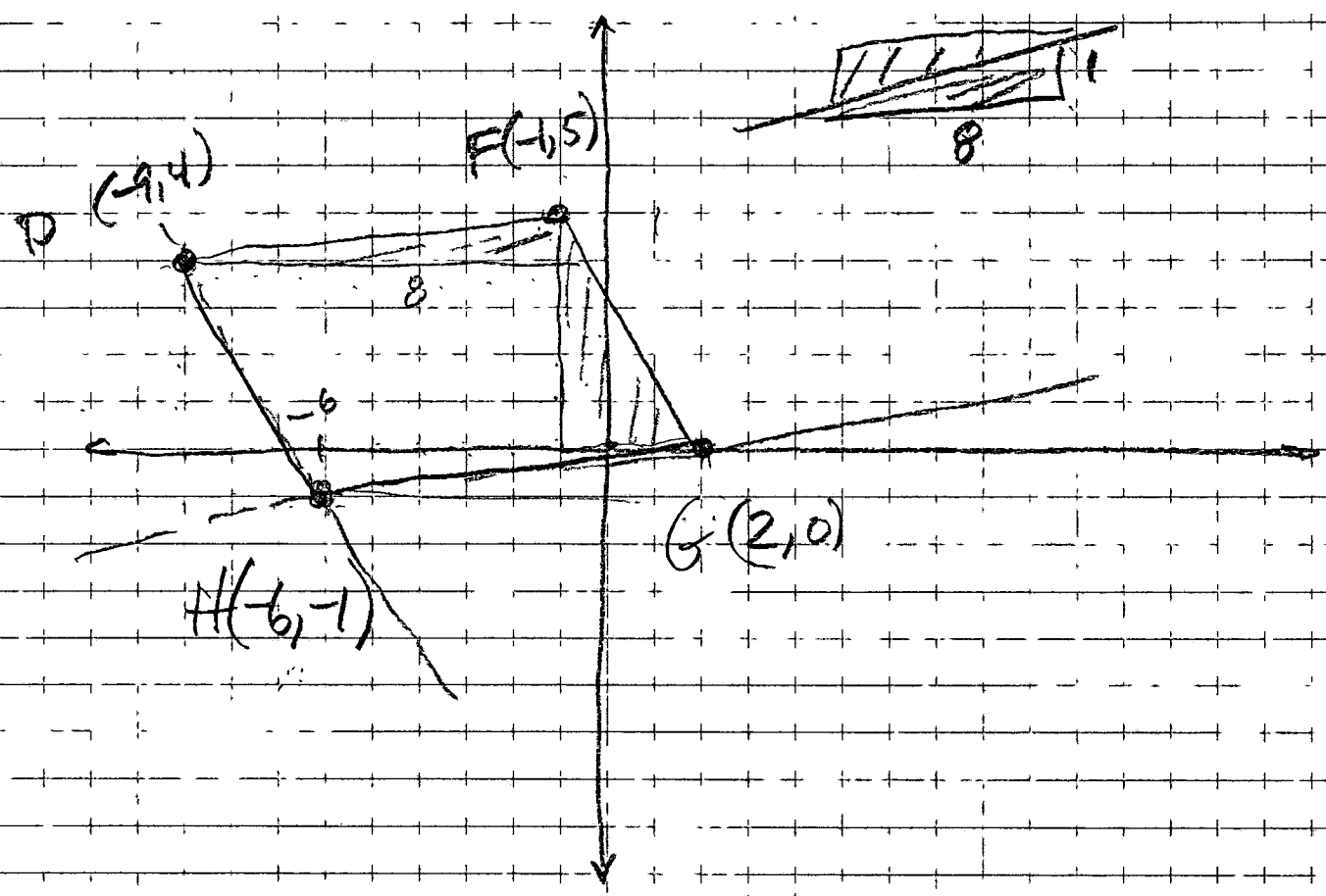
$7z = 189$

$\therefore m\angle L = 2(27) - 3$

$z = 27$

$\boxed{= 51^\circ}$

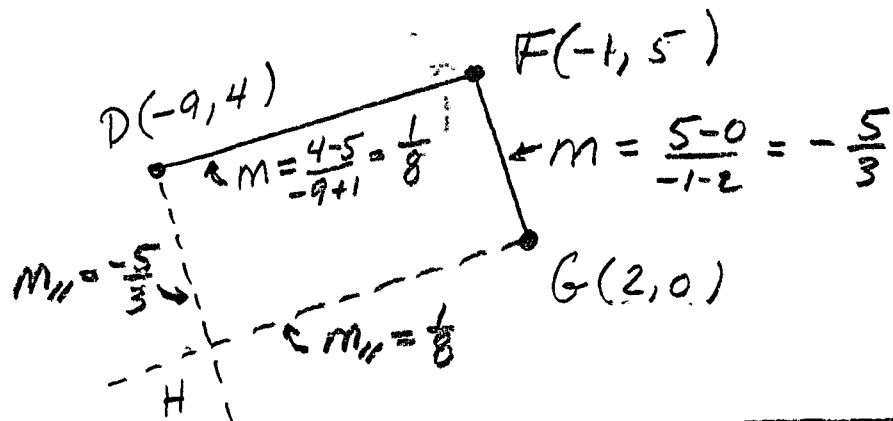
(B)



COUNTING GRIDS FOR
 SLOPE IS EASIEST.

YOU CAN USE ALGEBRA —
 SEE NEXT PAGE.

13



USING ALGEBRA INSTEAD OF COUNTING GRIDS. It works!!

EOL $\overline{GH} \Rightarrow y = mx + b$ using $G(2, 0)$
 $m = \frac{1}{8}$

$0 = \frac{1}{8}(2) + b$
 $-\frac{1}{4} = b \quad \therefore \overline{GH} \Rightarrow y = \frac{1}{8}x - \frac{1}{4}$

EOL $\overline{DH} \Rightarrow y = mx + b$ using $D(-9, 4)$
 $m = -\frac{5}{3}$

$4 = -\frac{5}{3}(-9) + b$
 $4 = 15 + b$
 $-11 = b \quad \therefore \overline{DH} \Rightarrow y = -\frac{5}{3}x - 11$

SOLVE THIS SYSTEM OF EQUATIONS TO FIND INTERSECTION $\Rightarrow H(x, y)$

$\begin{cases} y = \frac{1}{8}x - \frac{1}{4} \\ y = -\frac{5}{3}x - 11 \end{cases} \Rightarrow$ EBS $-\frac{5}{3}x - 11 = \frac{1}{8}x - \frac{1}{4}$
 $-40x - 11 \cdot 24 = 3x - 6$
 $-264 + 6 = 43x$
 $\frac{-258}{43} = \frac{43x}{43}$

$-6 = x$

$\therefore y = -\frac{5}{3}(-6) - 11$

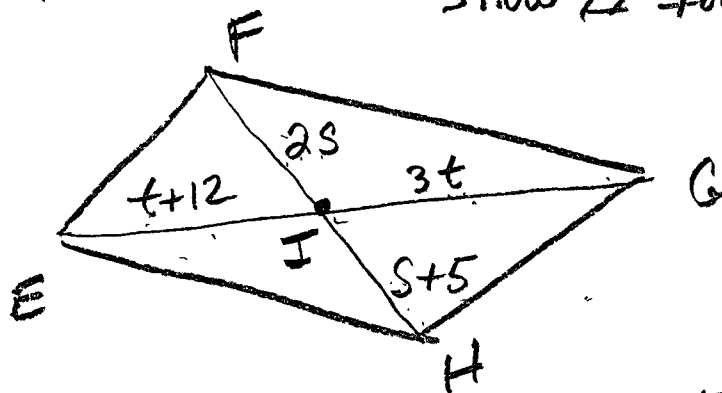
$y = 10 - 11$
 $y = -1$

$H(-6, -1)$

Pg 414 # 1-7

SHOW \square for $s=5, t=6$

①

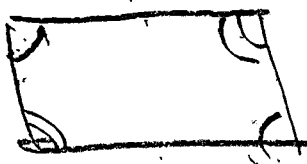


$$\left. \begin{array}{l} 2s = 10 \\ s+5 = 10 \end{array} \right\} \text{Bisect}$$

$$\left. \begin{array}{l} 6+12 = 18 \\ 3(6) = 18 \end{array} \right\} \text{Bisect.}$$

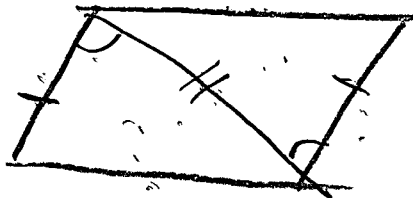
Since DIAGONALS BISECT EACH OTHER, \square

③



Yes, \square ,
OPP. Angles are \cong

⑤



$\triangle \cong$ SAS CPCTC

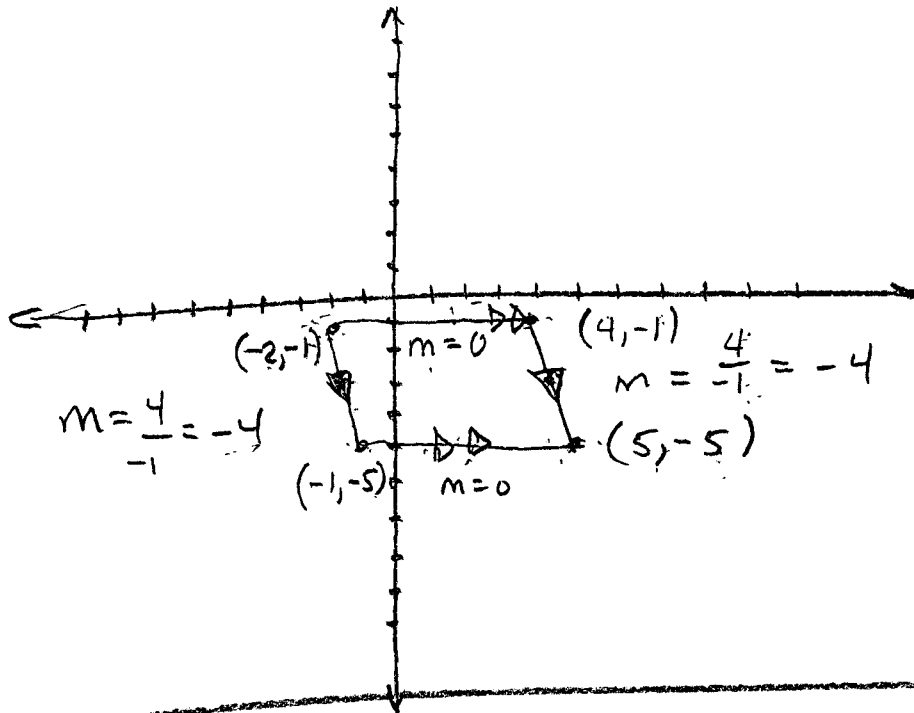
\therefore OPP SIDES ARE \cong

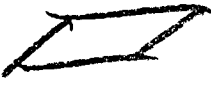
$\therefore \square$

Q. 414
 (7)

$R(-1, -5)$, $S(-2, -1)$,
 $T(4, -1)$, $U(5, -5)$

□?



Since BOTH PAIRS OF SIDES ARE //,
 it is a 

Pg 424
#1

Equilateral quadrilateral -

= **RHOMBUS**

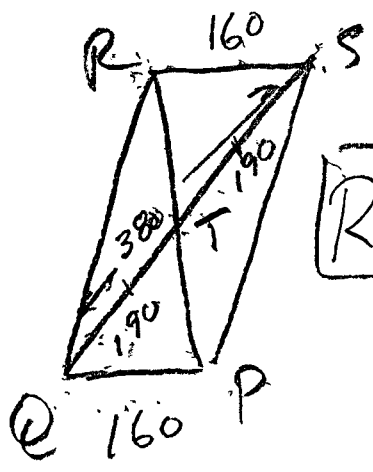
Equiangular quadrilateral

= **RECTANGLE**

Regular quadrilateral.

= **SQUARE**

3

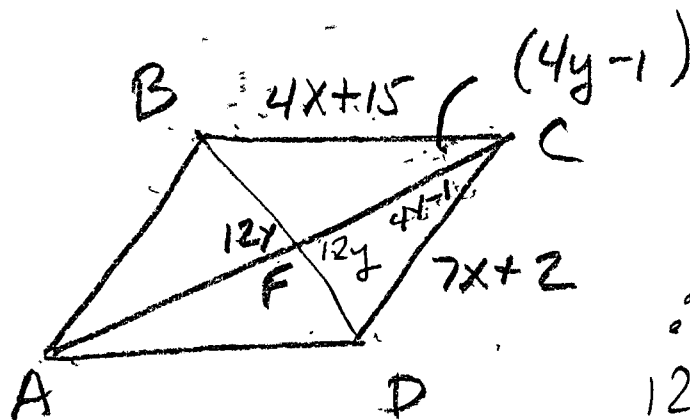


PQ = ? **160**

RECTANGLE

5 PR = ? **380**

⑦



RHOMBUS

$$\therefore 12y = 90$$

$$y = \frac{90}{12} = \frac{45}{6}$$

$$y = \frac{15}{2}$$

$$m\angle ABC = ?$$

$$\therefore 4\left(\frac{15}{2}\right) - 1$$

$$= 29 \therefore \angle C = 58^\circ$$

$$m\angle ABC = 122^\circ$$