









Do the investigation on page 326 of your book...

On an xy coord sys draw a square aligned as follows. Divide & conquer... 1 person at ea table take 1 of following:

- on 1 axis
- on both axes
- off but parallel to both axes
- not parallel to either axis

Determine:

- slope each side and diagonal
- coords of midpoints each diagonal

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- slope each side and diagonal $m = \frac{y_2 y_1}{x_2 x_1} = run$ coords of midpoints each diagonal $(x_1 + x_2 y_1 + y_2)$ MP = $m = \frac{y_2 y_1}{x_2 x_1} = run$









Find the value of a, b, c & d



Find the missing values Rectangle Centered @ origin Sides || axes C (?, ?) B (?, ?) B (?, ?) C (?, ?) C (?, ?) C (?, ?) B (?, ?)

Find the missing values



Cartlin



Advantage of using coords multiples of 2
Given:
$$A(2a, 2b) & B(2c, 2d)$$

1) What is the midpoint of \overline{AB} ?
 $\begin{pmatrix} x+x_2 & y_1+y_2 \\ \hline z & , 2 \end{pmatrix}$
($2a+2c \\ \hline z & , 2b+2d \\ \hline z & , 2 \end{pmatrix}$
2) What is the slope of \overline{AB} ?
 $\begin{cases} y_2, y_1 \\ \hline x_2 & -2c \\ \hline x_2$







Will it work for a concave quad?





L6-6 HW Problems

L6-6 Pg 328 #1-12, 20-25, 28-31, 35-41

Extra credit worksheet (available online)