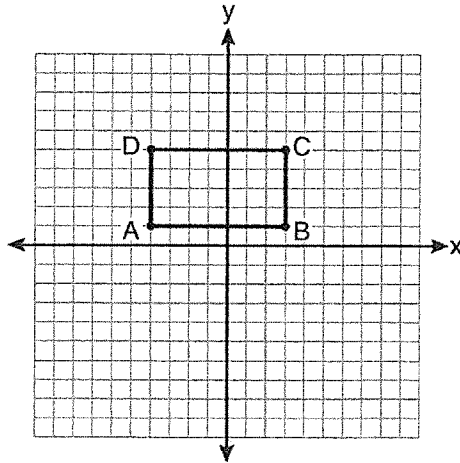# <u>GEOMETRY 11b Lesson A: Week Four Mr. Dinallo</u>

Beckerman, Elharar, Klein, Nimni, Soleynabzadeh, Sussman, Tendler.

In order to answer these questions, you must review all three lessons: see Barron's pages 99 through 103

8 On the set of axes below, Geoff drew rectangle *ABCD*. He will transform the rectangle by using the translation $(x,y) \rightarrow (x + 2, y + 1)$ and then will reflect the translated rectangle over the *x*-axis.



What will be the area of the rectangle after these transformations?

(1) exactly 28 square units

(2) less than 28 square units

(3) greater than 28 square units

(4) It cannot be determined from the information given.

9 What is the equation of a line that is parallel to the line whose equation is $y = x + 2$?

(1) $x + y = 5$

(2) $2x + y = -2$

(3) $y - x = -1$

(4) $y - 2x = 3$

10 The endpoints of $\overline{CD}$ are $C(-2,-4)$ and $D(6,2)$. What are the coordinates of the midpoint of $\overline{CD}$?

(1) $(2,3)$

(2) $(2,-1)$

(3) $(4,-2)$

(4) $(4,3)$