

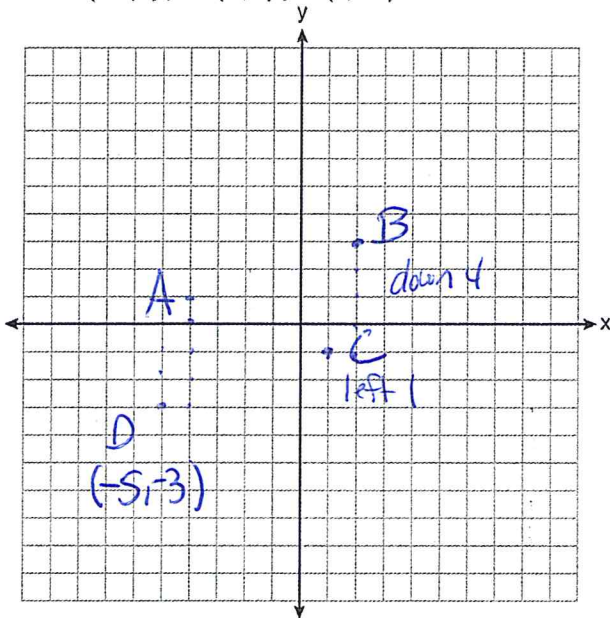
Name Schlansky  
Mr. Schlansky

Date \_\_\_\_\_  
Geometry

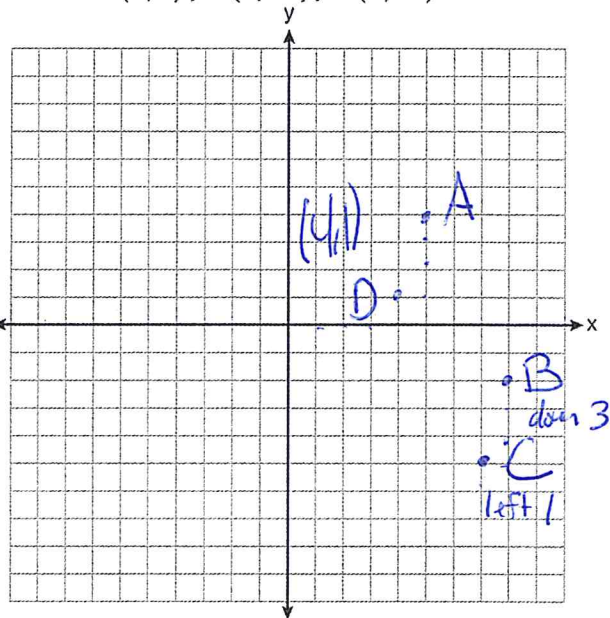
## Creating Parallelograms

For each of the following, use the three given points to find the <sup>D</sup>fourth point that makes a  $ABCD$  parallelogram.

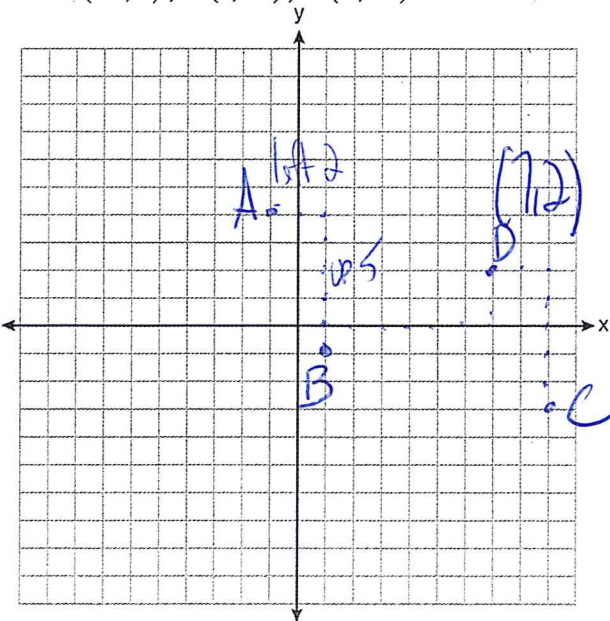
1.  $A(-4,1)$ ,  $B(2,3)$ ,  $C(1,-1)$



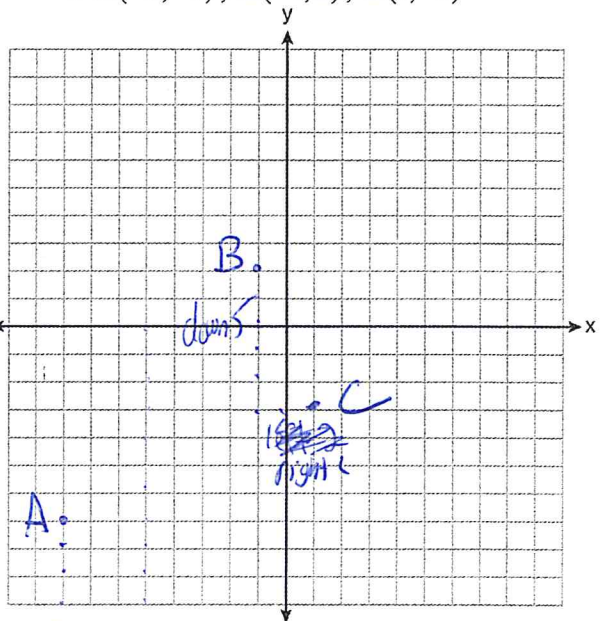
2.  $A(5,4)$ ,  $B(8,-2)$ ,  $C(7,-5)$



3.  $A(-1,4)$ ,  $B(1,-1)$ ,  $C(9,-3)$



4.  $A(-8,-7)$ ,  $B(-1,2)$ ,  $C(1,-3)$



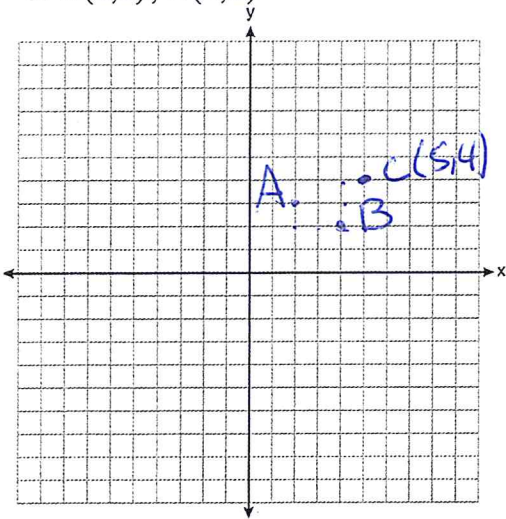
$D(-6,12)$

Perpendicular lines have negative reciprocal slopes  
 $\triangle ABC$

For each of the following, use the two given points to find the third point that makes a right triangle

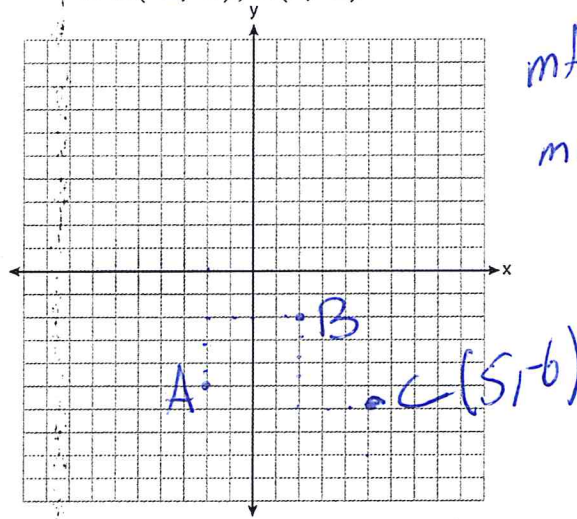
5.  $A(2,3), B(4,2)$

$m_{AB} = -\frac{1}{2}$   
 $m_{BC} = \frac{2}{1}$



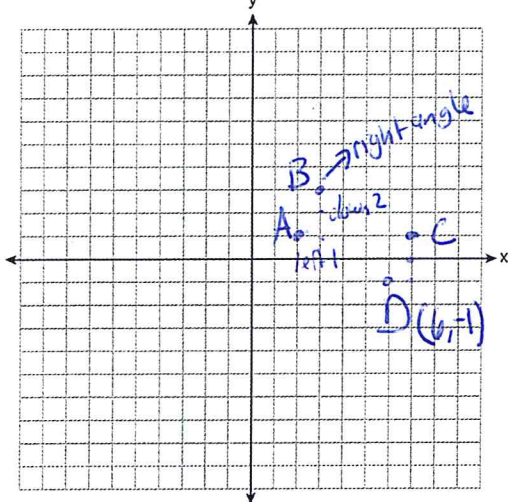
6.  $A(-2,-5), B(2,-2)$

$m_{AB} = \frac{3}{4}$   
 $m_{BC} = -\frac{4}{3}$

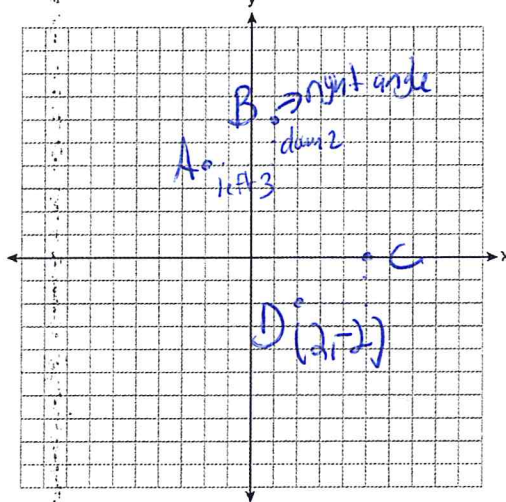


For each of the following, use the three given points to find the fourth point that makes the shape a rectangle

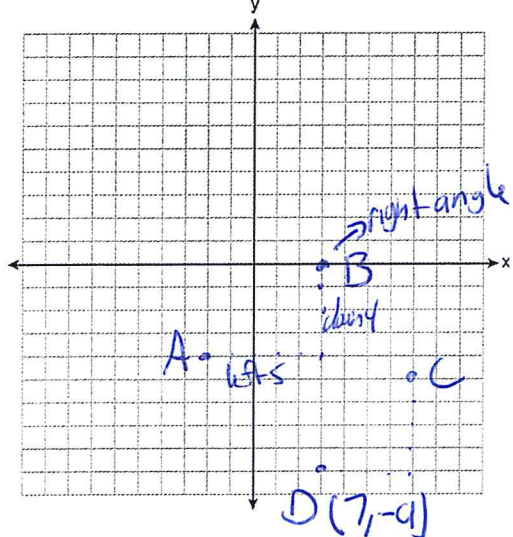
7.  $A(2,1), B(3,3), C(7,1)$



8.  $A(-2,4), B(1,6), C(5,0)$



9.  $A(-2,-4), B(3,0), C(7,-5)$



10.  $A(-4,2), B(-1,3), C(2,-6)$

