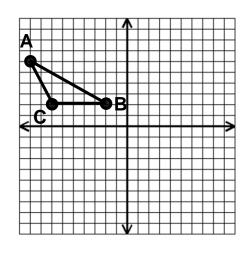
TRANSLATIONS

Answer the following questions using the triangle given.

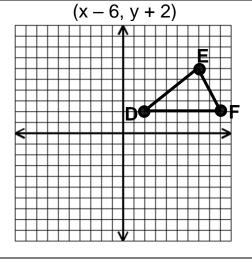
- a) What is the image of point A under the translation that shifts (x,y) to (x + 3, y - 8)?
- b) A translation moves B onto B' (6, 5). What is the image of C under that same translation.



2. D'(_____, ____)

E'(_____, ____)

F'(_____, ____)



DRAW the indicated translation of each polygon below, state the new coordinates of each vertex and find the object indicated.

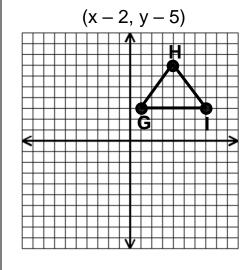
3. G'(_____, ____)

H'(_____, ____)

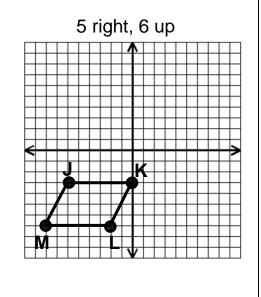
Find the equation of the line containing $\overline{G'H'}$.

Name a slope parallel to it: _____

Name a slope perpendicular to it:

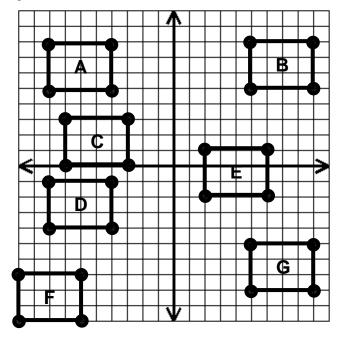


4.	J'(_,	_)
	K'(_,	_)
	L'(_,	_)
	M'(_)
	Write the equation of the line containing the perpendicular bisector of $\overline{M'J'}$:		



Describe each translation as an ordered pair translation.

Describe each translation as an order		
5	A to B	
6	E to D	
7	B to C	
8	E to F	
9	G to B	
10	C to D	



11	The ratio of the side lengths of a triangle is 4:5:8. If the perimeter is 38.25 centimeters, what is the length in centimeters of the shortest side?

12	A sailboat has coordinates 100° west and 5° south. The boat sails 50° due west. Then the boat sails 10° due south. What is the boat's final position? What single translation vector moves it from its first position to its final position?
13	Find the measure of one interior angle of a regular hexagon.
14	Find YS to the nearest thousandth.
15	If J is on the perpendicular bisector of \overline{KL} , what is the length of \overline{KL} ?