Grade 8
Homework

Translations
Do Work on Sheet

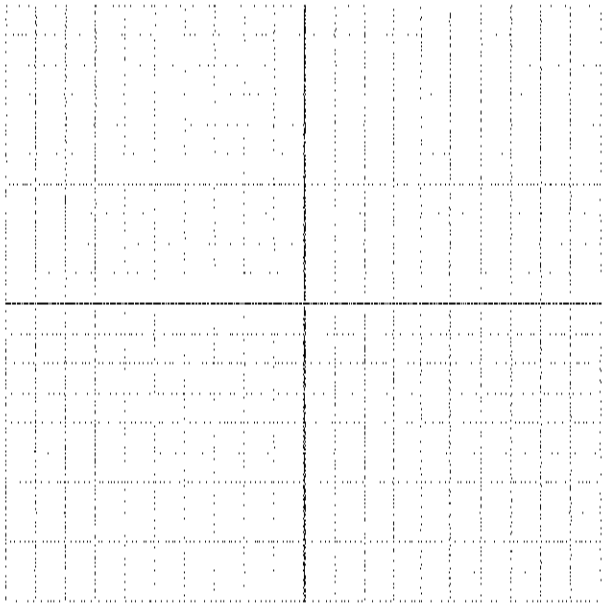
1) What is the image of the point (5, -2) under the translation $T_{2,1}$?

2) A translation maps P(4, -3) onto P'(2, 1). Find the coordinates of Q', the image of Q(-2, 1), under the same translation.

3) Translation T is defined by $(x, y) \rightarrow (x + 2, y - 1)$. Find the image of (-1, 5) under translation T.

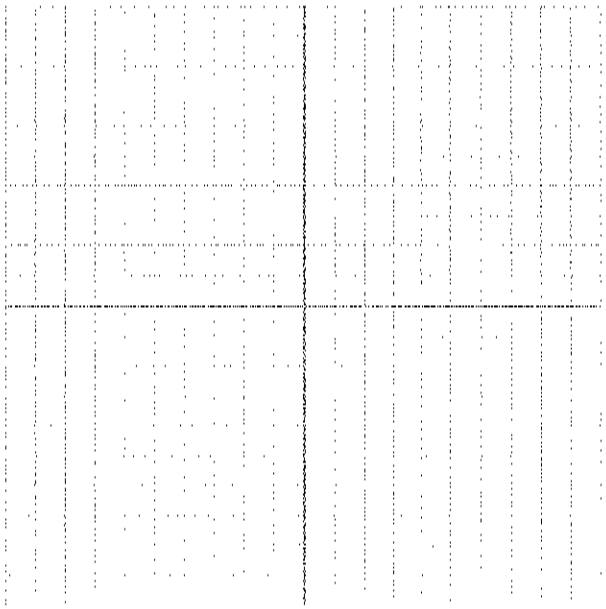
4) Given ΔABC with A(1, 2), B(0, 5), and C(5, 4). Graph and state the coordinates of:

a) ΔA'B'C', the image of ΔABC after $T_{-6,3}$
b) ΔA"B"C", the image of ΔA'B'C' after r_{x-axis}



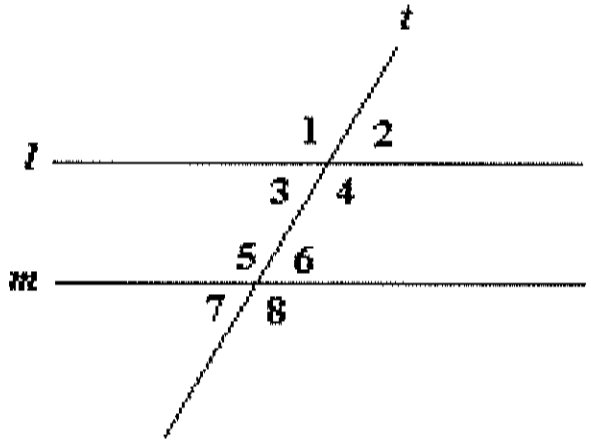
5) Given: Vertices A(-3, -7), B(-3, -3), and C(0, -3). Graph and state the coordinates of:

a) ΔA'B'C', the image of ΔABC after r_{origin}.
b) ΔA"B"C", the image of ΔA'B'C' after $T_{3,-5}$



Continue with the work on the back

6) In the accompanying diagram $l \parallel m$. If $m\angle 1 = 121°$, find the measure of each of the other angles.



7) What is the measure of each interior angle of a 12 sided figure? Each exterior angle?

8) How many sides does a regular polygon have if the measure of its interior angles is equal to 540°?

9) In triangle ABC, the measure of $\angle A = 68°$ and the measure of $\angle B = 57°$. List the sides of triangle ABC from greatest to least.