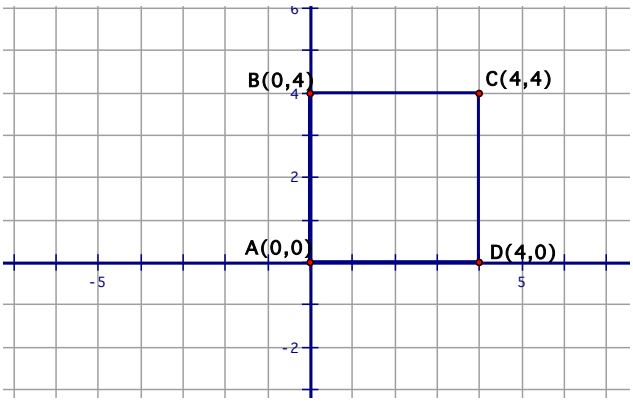
**0.04 Homework Translations**
Geometry

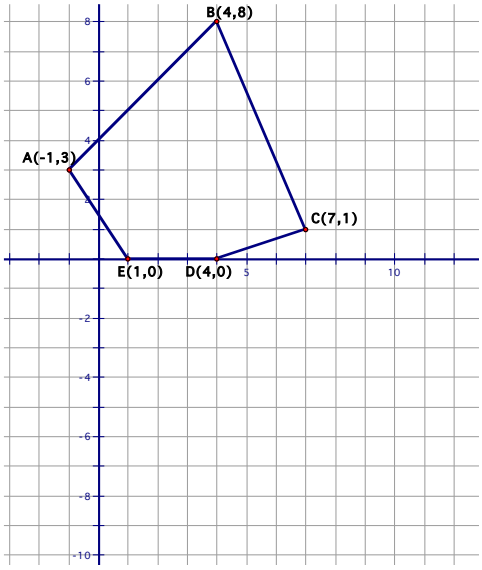
Name: _____
Period: _____ Date: _____

TRANSLATE EACH FIGURE ACCORDING TO THE DIRECTIONS

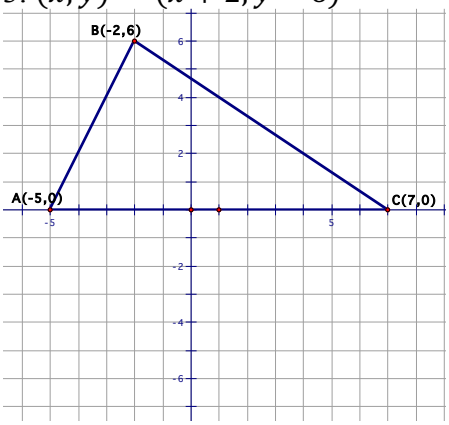
1. Translate 6 left and 1 up



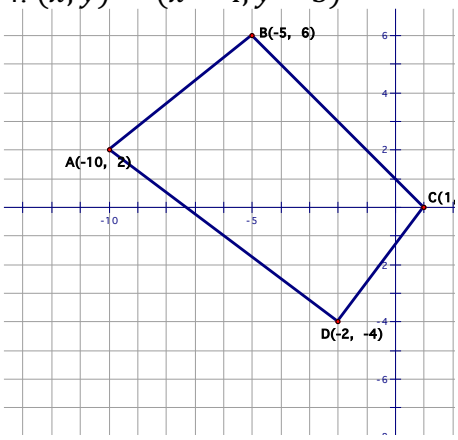

2. Translate 5 down and 1 left



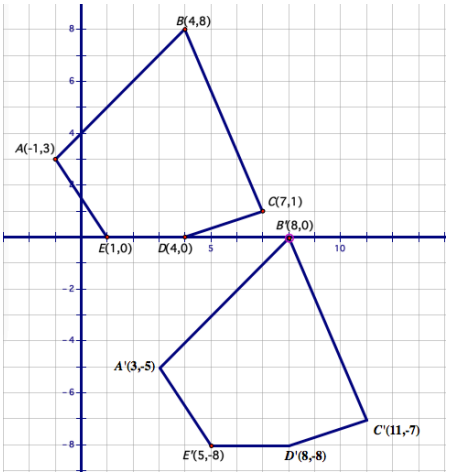

3. $(x, y) \rightarrow (x + 2, y - 6)$



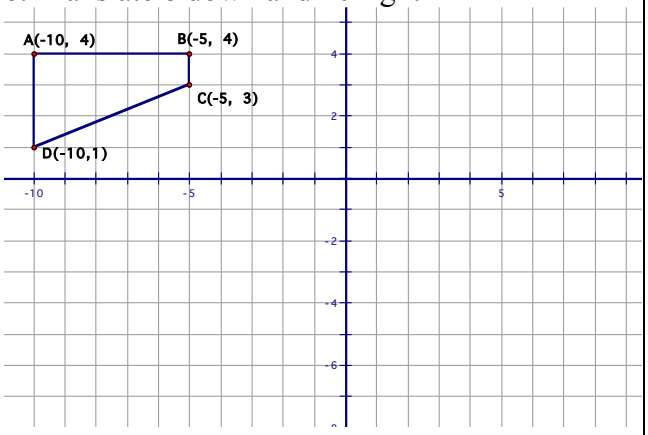

4. $(x, y) \rightarrow (x - 4, y - 3)$



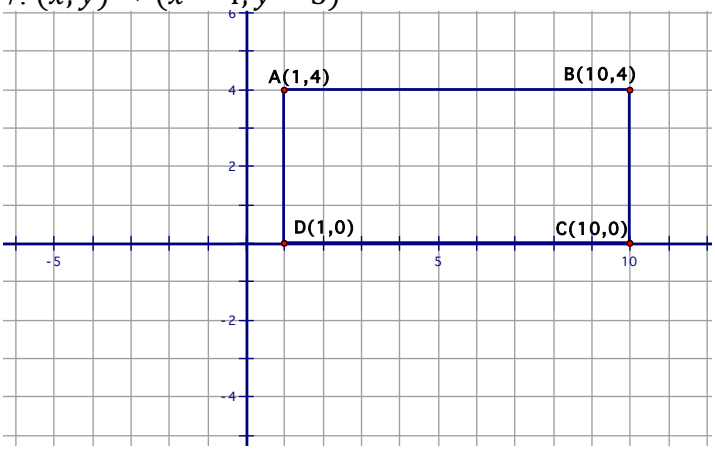

5. Write a rule for the translation shown.



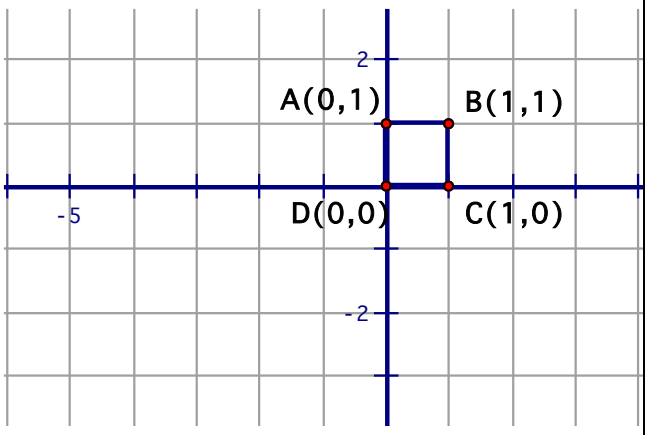

6. Translate 8 down and 10 right



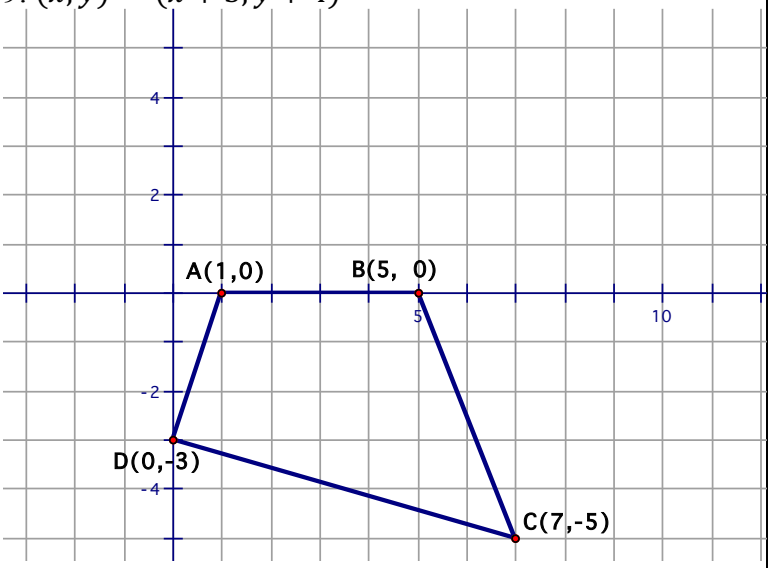
7. $(x, y) \rightarrow (x - 4, y - 3)$



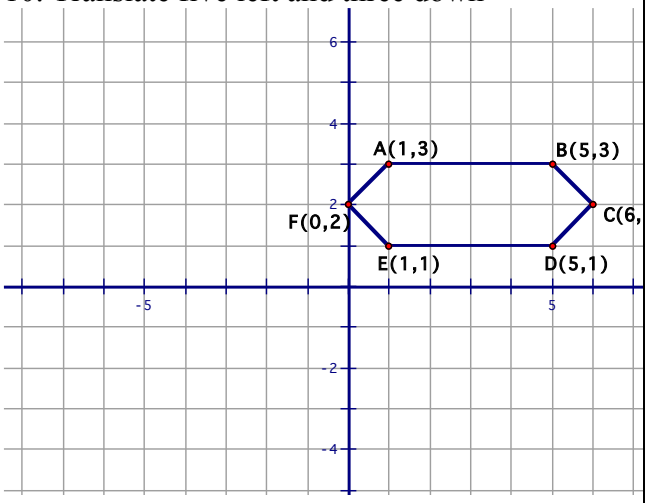

8. Translate three down and four left



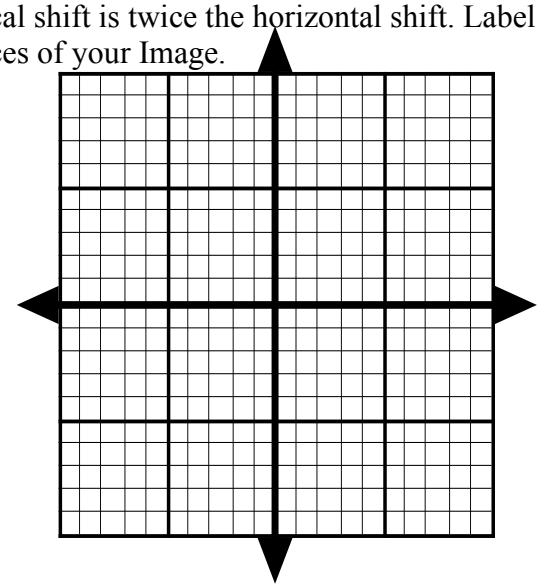
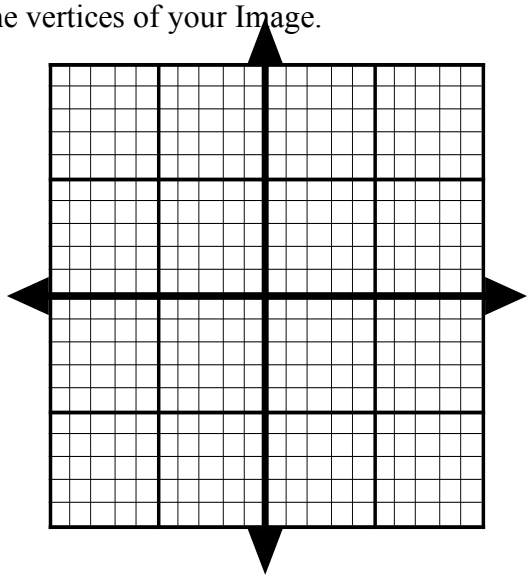

9. $(x, y) \rightarrow (x + 3, y + 4)$




10. Translate five left and three down




11. Draw your own polygon (other than a square) and label its vertices. Translate your Pre-image so that the vertical shift is twice the horizontal shift. Label the vertices of your Image.



12. Copy your Pre-image from problem 11. Now translate your Pre-image so that the vertical shift is half of the horizontal shift. Label the vertices of your Image.