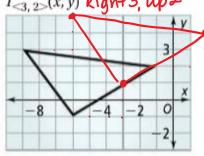
9.1 Translation Homework

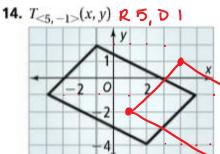
P.550 #13-19, 22, 36

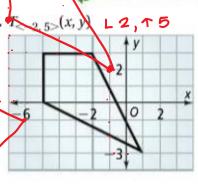
Copy each graph. Graph the image of each figure under the given translation.

See Problem 3.

13. $T_{3,2}(x,y)$ Right 3, up?







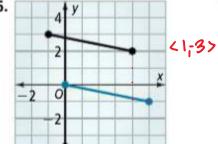
The blue figure is a translation image of the black figure. Write a rule to describe each translation.



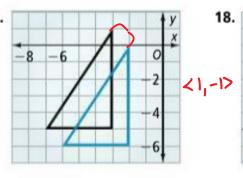
See Problem 4.

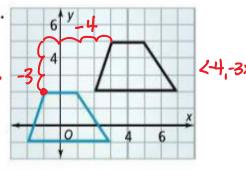
See Problem 5.

16.



17.





19. Travel You are visiting San Francisco. From your hotel near Union Square, you walk 4 blocks east and 4 blocks north to the Wells Fargo History Museum. Then you walk 5 blocks west and 3 blocks north to the Cable Car Barn Museum. Where is the Cable Car Barn Museum in relation to your hotel?



<-1, 7> I block west, 7 blocks North

22. Think About a Plan $\triangle MUG$ has coordinates M(2, -4), U(6, 6), and G(7, 2). A translation maps point M to M'(-3, 6). What are the coordinates of U' and G' for this translation?

Translation vector: くっち、ロン

- How can you use a graph to help you visualize the problem?
- How can you find a rule that describes the translation?

く-6,10>

36. $\triangle ABC$ has vertices A(-5, 2), B(0, -4), and C(3, 3). What are the vertices of the image of $\triangle ABC$ after the translation $T_{<7,-5>}(\triangle ABC)$? A (2,-3) B (7,-9)

$$A'(2,-3), B'(7,-9), C'(10,-2)$$
 $A'(-12,7), B'(-7,1), C'(-4,8)$

$$A'(-12,7), B'(-7,1), C'(-4,8)$$

$$A'(-12, -3), B'(-7, -9), C'(-4, -2)$$
 $A'(2, -3), B'(10, -2), C'(7, -9)$

$$A'(2,-3), B'(10,-2), C'(7,-9)$$