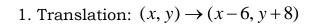
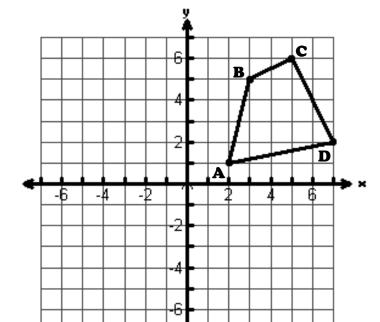
Find the coordinates of the vertices of the image of ABCD for each transformation.





- 2. Rotation of 90° about the origin
- 3. Reflection across the line x = -4
- 4. Dilation centered at the origin with a scale factor of $\frac{2}{3}$
- 5. Reflection across the line y = -x
- 6. Rotation of -90° about the origin
- 7. Dilation centered at the origin with a scale factor of 5
- 8. Translation 3 units right and 1 unit down

9. Triangle ABC has vertices A(1, 3), B(0, 1), and C(4, 0). Under a translation, A', the image of A, is located at (4, 4). Under this same translation, where would point C' be located?

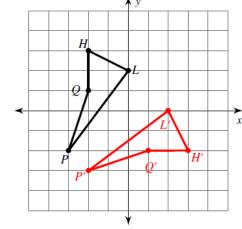
10. A translation maps (17, 8) onto (9, -1). Under the same translation, what is the **preimage** of (10, 2)?

11. Find a single translation that has the same effect as each composition of translations.

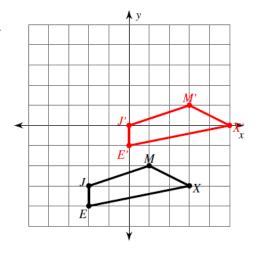
$$(x, y) \rightarrow (x+2, y+5)$$
 followed by $(x, y) \rightarrow (x-4, y+9)$

Write a rule to describe each transformation.

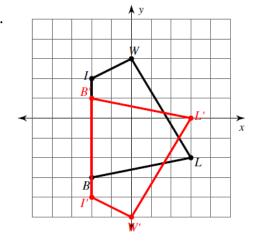




13.



14.



15.

