

$(4, 7) \xrightarrow{T \circ T} (6, -4)$

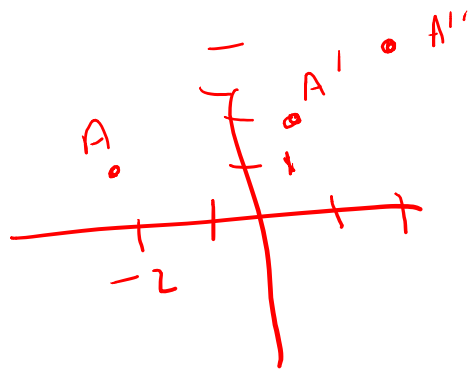
$$T_{\langle 3, 1 \rangle} \circ D_2$$

↓

$$(x+3, y+1) \rightarrow (2(x+3), 2(y+1))$$

$$(2x+6, 2y+2)$$

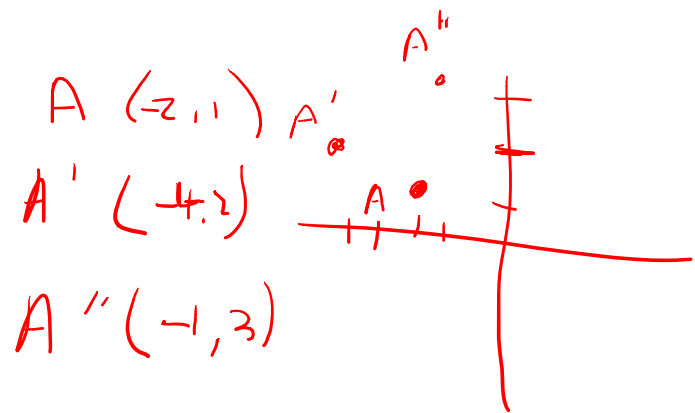
- A (-2, 1)
- A' (1, 2)
- A'' (2, 4)



$$D_2 \circ T_{\langle 3, 1 \rangle}$$

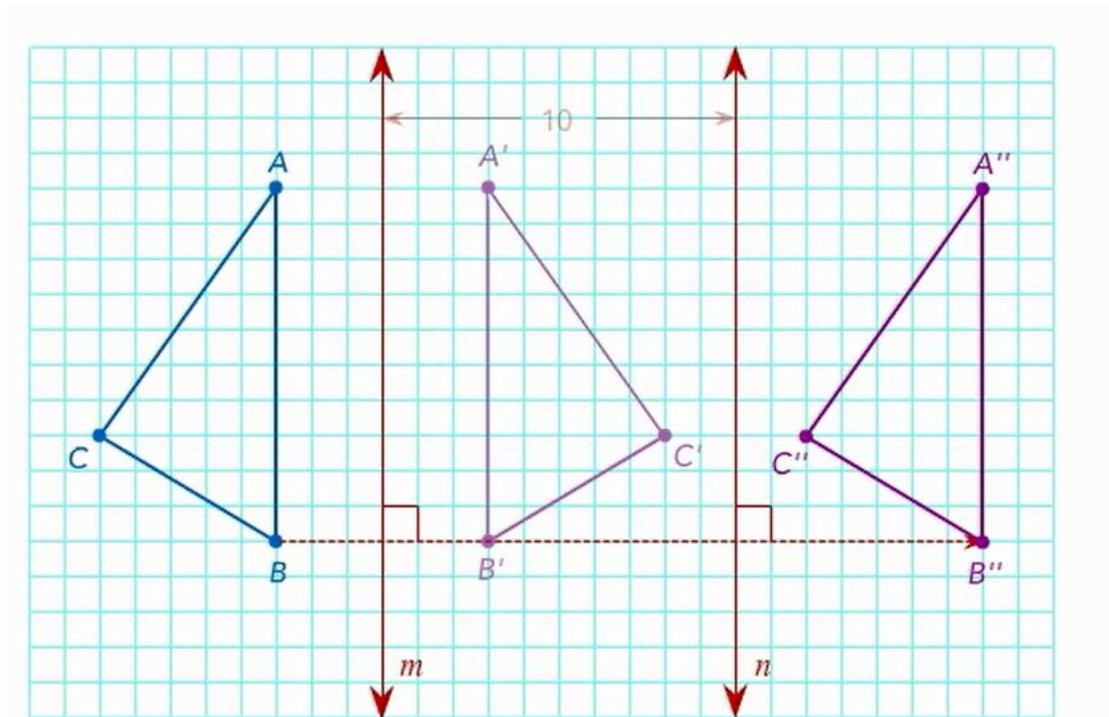
$$(2x, 2y) \rightarrow (x+3, y+1)$$

$$(2x, 2y) \rightarrow (2x+3, 2y+1)$$



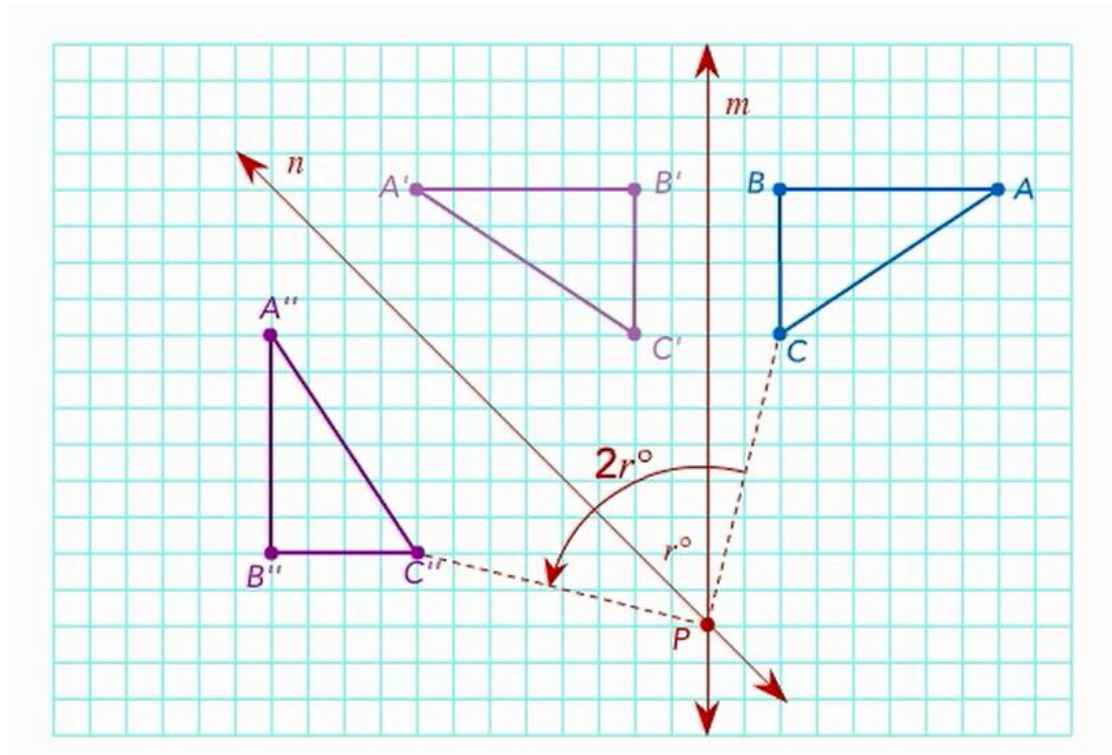
Reflection across 2 parallel lines

A reflection across 2 parallel lines is equivalent to a translation of 2 times the distance between the parallel lines



Reflection across 2 intersecting lines

A reflection across 2 intersecting lines is equivalent to a rotation of 2 times the angle between the lines



Glide Reflection

A **glide reflection** is a composition of a reflection in a line, then a translation along that line.

