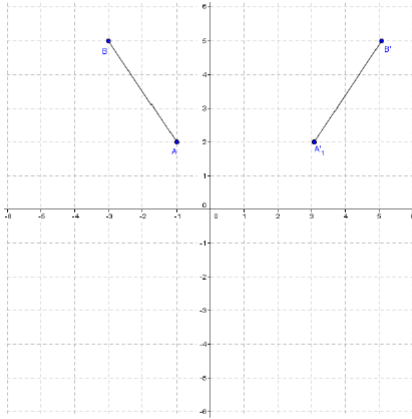


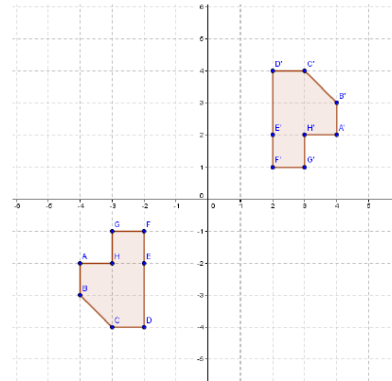
## Multiple Reflections

- A. Draw and name the line of reflection.



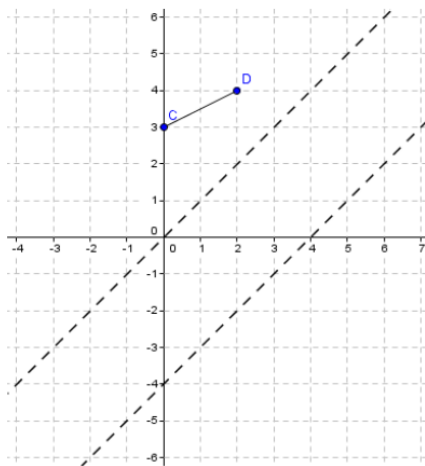
Write the equation of the line of reflection.

- B. The transformation in the graph is a rotation of 180 degrees



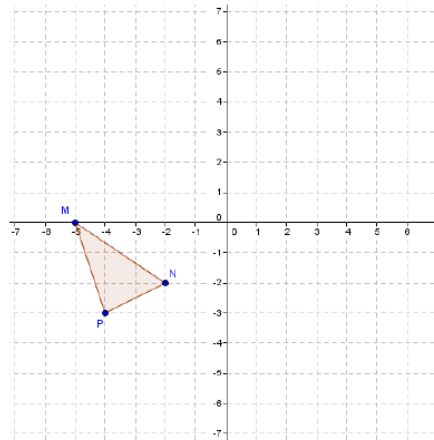
What two REFLECTIONS (done back to back) would achieve the same image?

- C. Reflect  $\overline{CD}$  over the line  $y = x$ . Name its image  $\overline{C'D'}$ .



Now reflect  $\overline{C'D'}$  over the line  $y = x - 4$ . Name that image  $\overline{C''D''}$ . What other transformation would give you the same image.

- D. Reflect  $\triangle MNP$  over the line  $x = -1$ . Name its image  $\triangle M'N'P'$ .



Now reflect  $\triangle M'N'P'$  over the line  $y = 2$ . Name that image  $\triangle M''N''P''$ . What transformation did you create?