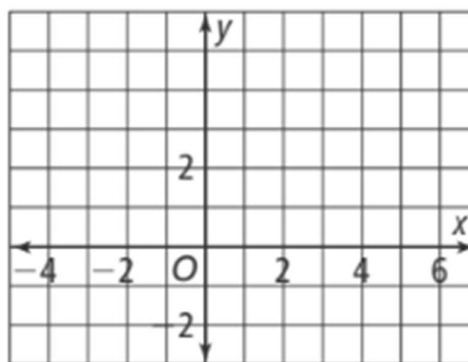


Student's Name: \_\_\_\_\_

Grade 9<sup>th</sup>10<sup>st</sup> September, 2025

**Q1)** Triangle  $ABC$  has been reflected in the  $x$ -axis, then in the  $y$ -axis, and then in the origin. The result has vertices at  $A'''(4, 7)$ ,  $B'''(10, -3)$ , and  $C'''(-6, -8)$ . Find the coordinates of  $A$ ,  $B$ , and  $C$ .

**Q2)** Draw and then reflect triangle  $DEF$  with vertices  $D(-1, 1)$ ,  $E(1, 4)$ , and  $F(3, 2)$  about the origin.



Q3)

Suppose the equation of line  $\ell$  is  $x = 1$ .  
Given points  $M(3, 3)$ ,  $N(4, 4)$ , and  $O(5, 2)$ , graph  $\triangle MNO$  and the reflection image  $R_{\ell}(\triangle MNO)$ .

