

MATH 403 FALL 2021: QUIZ 10 SOLUTION

DATE: DEC 1, 2021

Fill in the blanks.

(a) (3 points) Every isometry can be written as the composition of **a translation** and **a linear isometry**.

(b) (3 points) Let α be an isometry and X, Y be two distinct fixed points of α .

Then, every point on ℓ_{XY} is a fixed point.

(c) (4 points) A bijective map α is called an involution

if it is not the identity and satisfies $\alpha^2 = \text{Id}$.