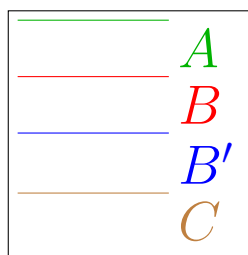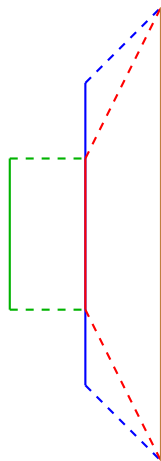# 1 Introduction

here I assume $g : A \rightarrow B, f : B' \rightarrow C$

from the above,
f is onto (see the blue dashed line),
and $f \circ g$ (red dashed line) is also.
but g (green dashed line) doesn't.

Notice: by the ans, the blue dashed line
is not necessary, with the red dashed line,
it is enough to show f is onto