

# Sample quiz

Math 142

Quiz # 10

Sections 16.1 - 16.3

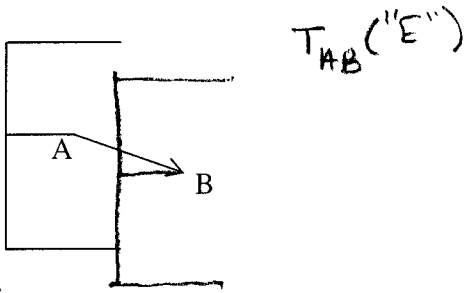
15

NAME: Key

Seat: \_\_\_\_\_

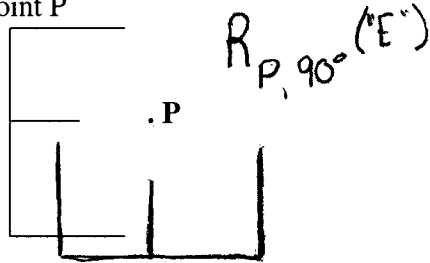
1. Carefully transform each of the following as indicated:

2pts a. Translate the "E" as indicated by the directed line segment AB.



2pts

c. Rotate the "E" 90° counterclockwise about point P



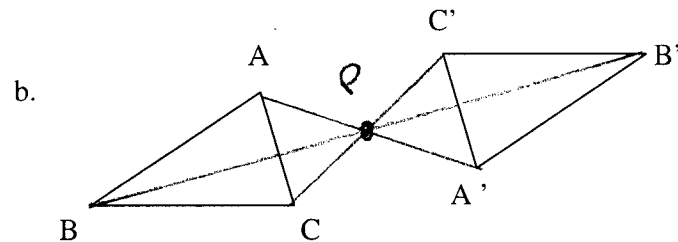
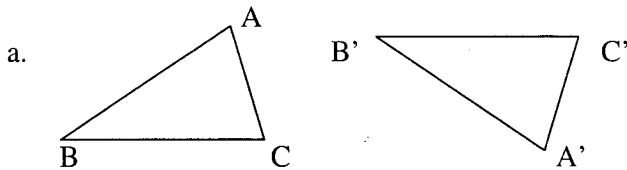
2pts

3. a. Name one property that is preserved by both an isometry and a size transformation.

b. Name one property that is preserved by an isometry that is not preserved by a size transformation.

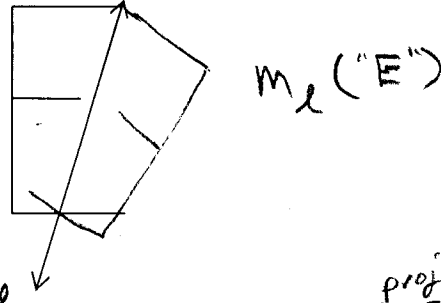
3pts

4. Name the type of isometry that maps each  $\Delta ABC$  on the left onto  $\Delta A'B'C'$  on the right.



b. Reflect the "E" over the indicated line.

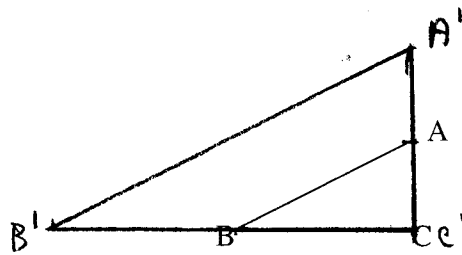
3pts



3pts

2. Perform the size transformation  $S_{C, 2}(ABC)$ . (Label the image  $\Delta A'B'C'$ .)

projection point  
scale factor



glide reflection

rotation  $\cong R_{P, 180}(\Delta ABC)$