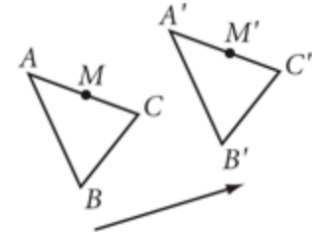


Geometry HW 8/23, due Friday 8/26 – Translations and Rotations

22. $\triangle ABC$ with M , the midpoint of \overline{AC} , are translated to create $\triangle A'B'C'$. Which of the following statements are true? Explain how you know.

- a. $\overline{AB} \cong \overline{A'B'}$
- b. $\angle C \cong \angle C'$
- c. M' is the midpoint of $A'C'$
- d. $\overline{BB'} \cong \overline{MM'}$



23. $\triangle DEF$ with \overline{EG} the bisector of $\angle E$ are rotated to create $\triangle D'E'F'$. Which of the following statements are true? Explain how you know.

- a. $\overline{DF} \cong \overline{D'F'}$
- b. $\angle F \cong \angle F'$
- c. $\angle DEG \cong \angle D'E'G'$
- d. $\overline{DD'} \cong \overline{GG'}$

