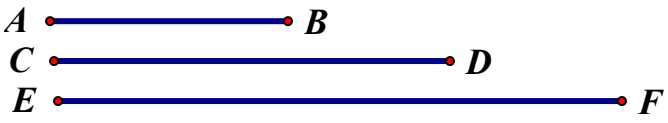
Section 1.1

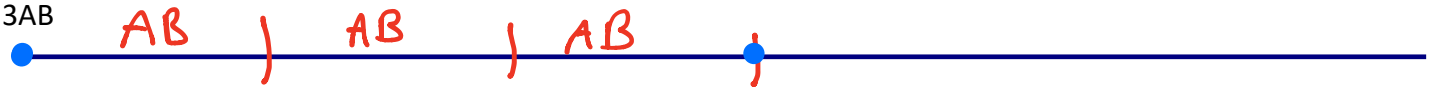
G.CO.D.12 ACTIVITY #1 – geometrycommoncore ***NAME:*** _____ ***1***

COPYING A SEGMENT

1. Given $\overline{AB}, \overline{CD}, \& \overline{EF}$. Use the copy segment construction to create the new lengths listed below.



3AB



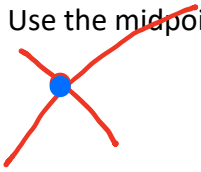
CD + EF

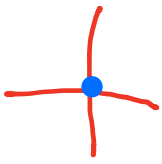
2CD + 1AB

EF - CD

CONSTRUCTING A MIDPOINT

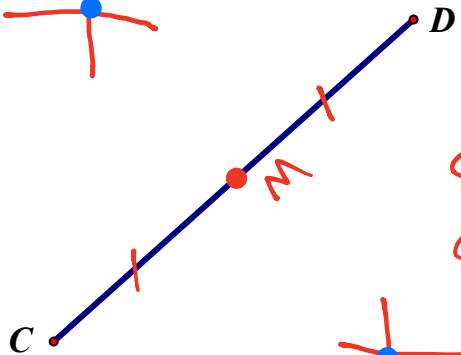
2. Given $\overline{AB}$ & $\overline{CD}$. Use the midpoint construction to find the midpoint of $\overline{AB}$ & $\overline{CD}$





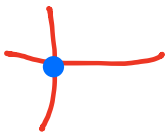
AM = MB

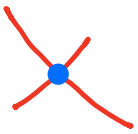
$\overline{AM} \cong \overline{MB}$

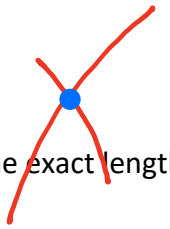


CM = MD

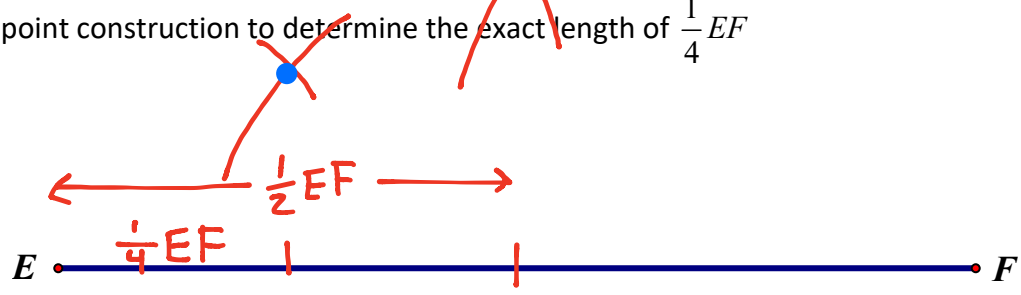
$\overline{CM} \cong \overline{MD}$



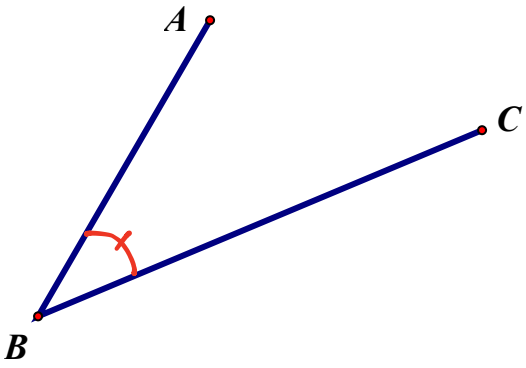


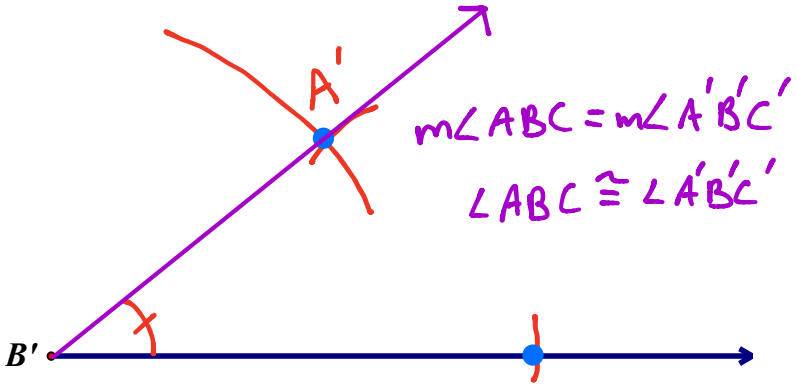


3. Use your midpoint construction to determine the exact length of $\frac{1}{4}EF$

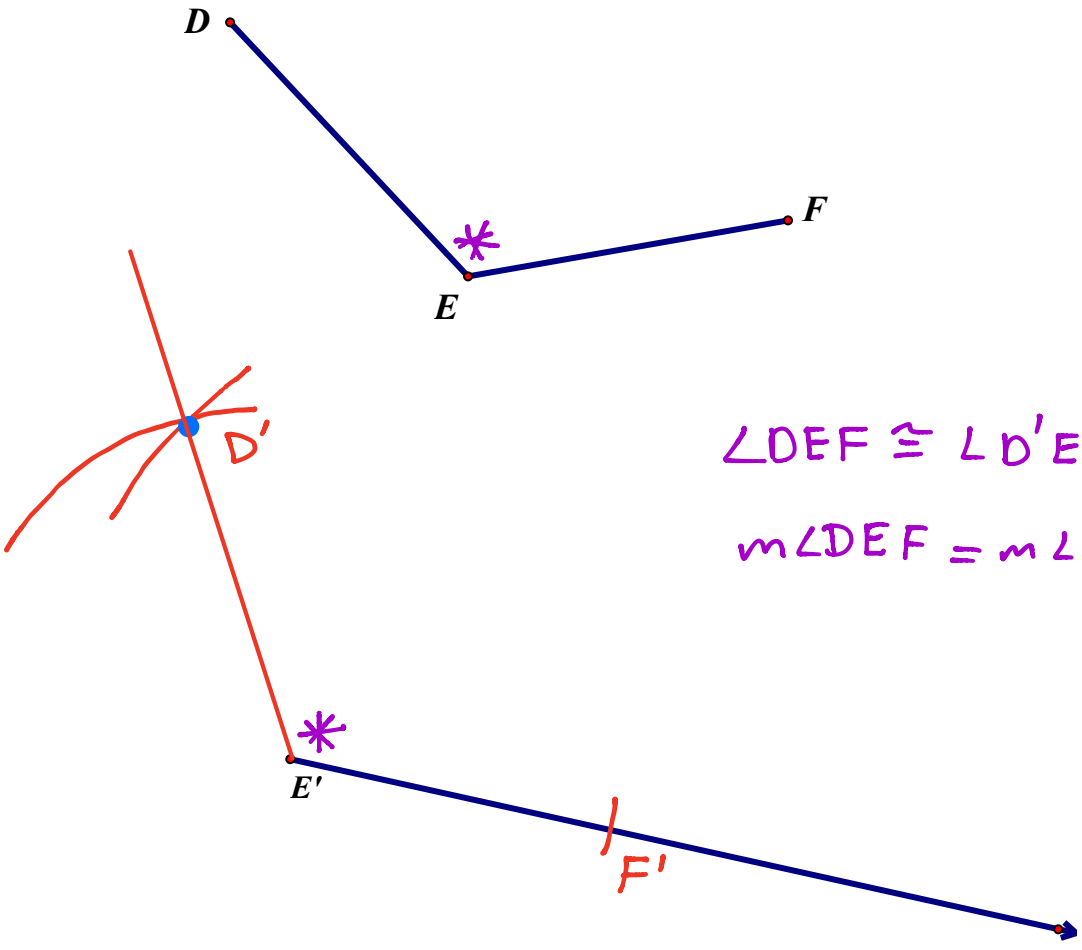


4. Given $\angle ABC$. Make a copy of $\angle ABC$, $\angle A'B'C'$.





5. Given $\angle DEF$. Make a copy of $\angle DEF$, $\angle D'E'F'$.



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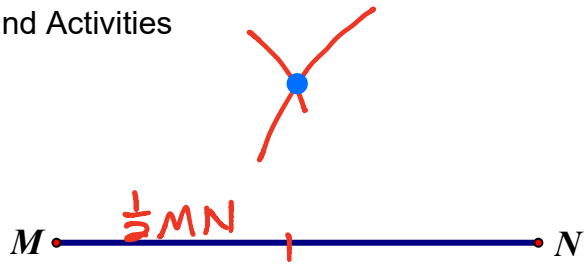
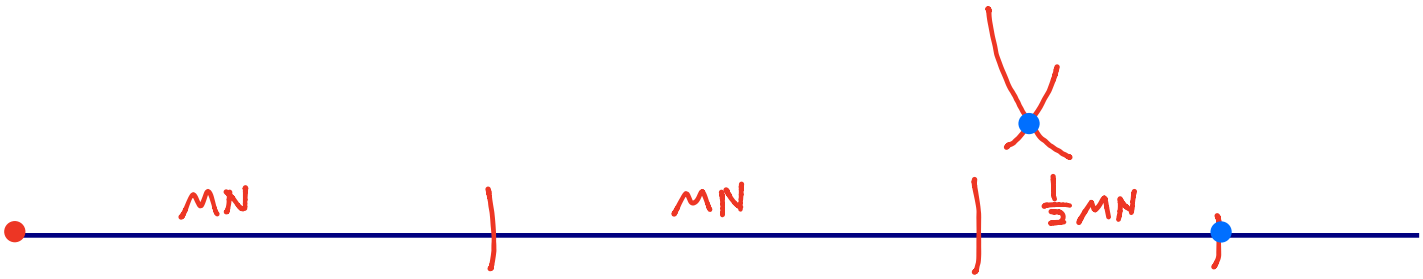
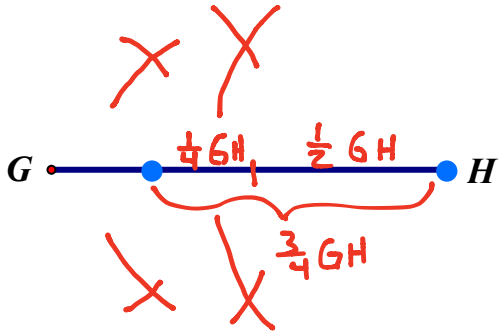
PRACTICE - CONSTRUCTION BASICS #1

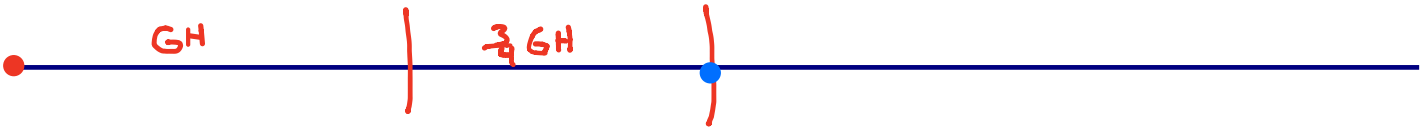
1. Given $\overline{MN}$, construct 2.5 MN



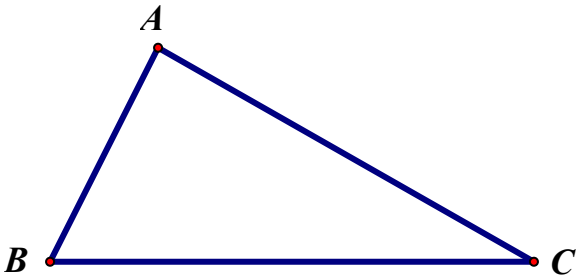


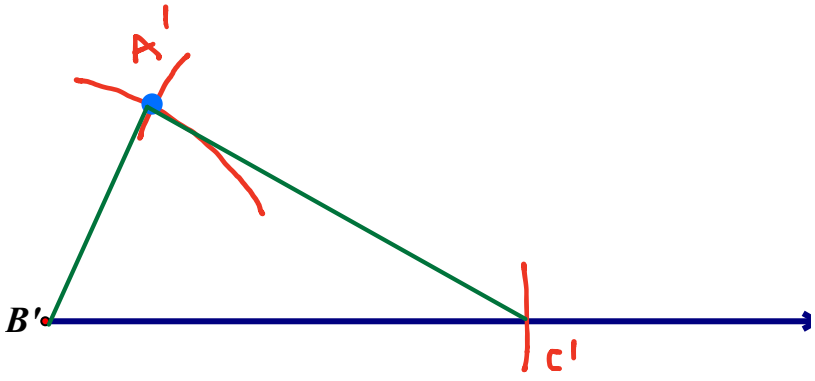
2. Given $\overline{GH}$, construct 1.75 GH





3. Given ΔABC, construct a copy of it, ΔA'B'C'.





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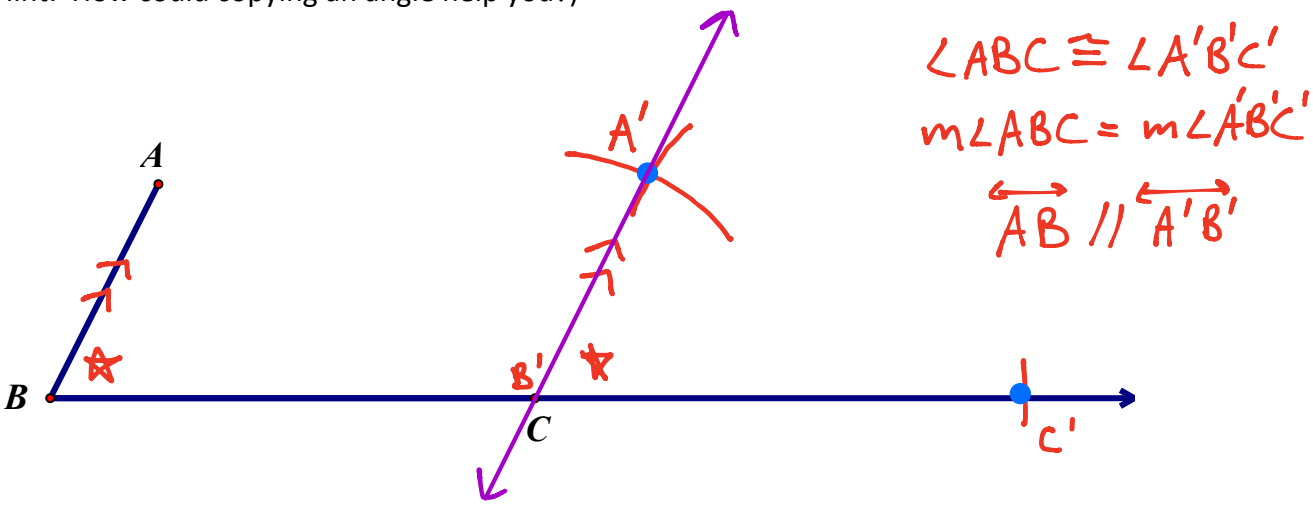
4. Given ∠ABC, can you think of a way to create a line parallel to $\overline{AB}$ through point C?
(Hint: How could copying an angle help you?)



5. Create a parallel line to $\overline{DE}$ through point F.