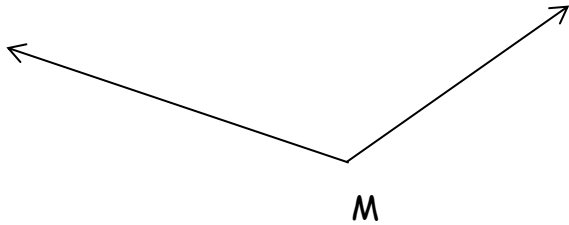


Check for understanding:

1. Construct $\angle M'$ by copying $\angle M$.

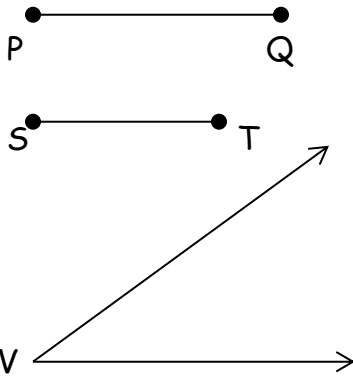


Then bisect $\angle M'$.

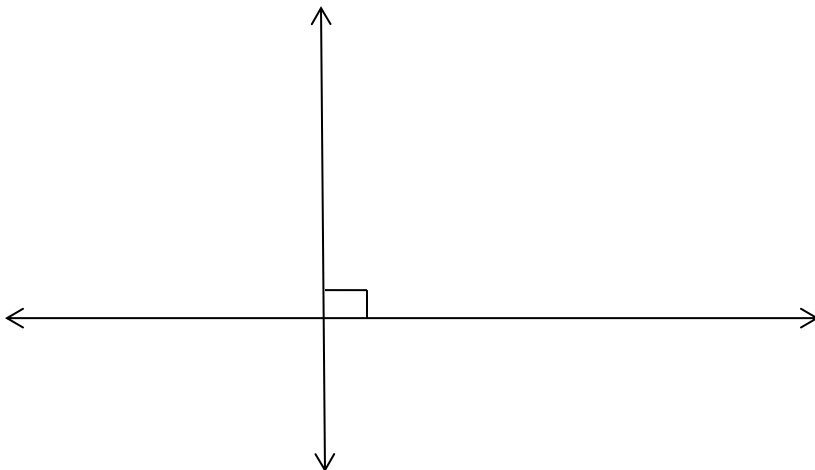


Practice: C-level

2. Construct a triangle with sides congruent to \overline{PQ} and \overline{ST} , with an angle congruent to $\angle V$ in between.



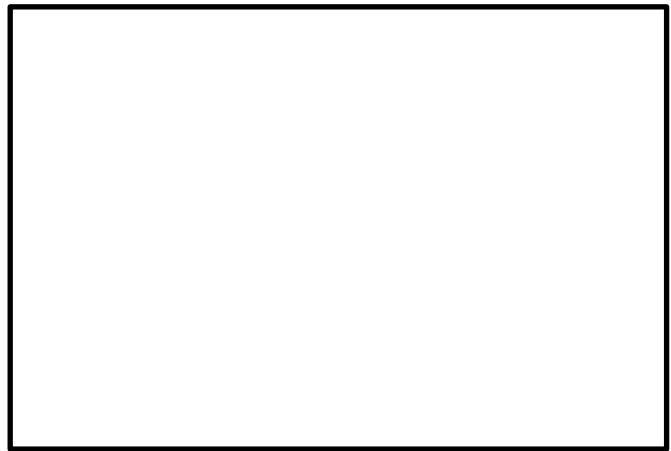
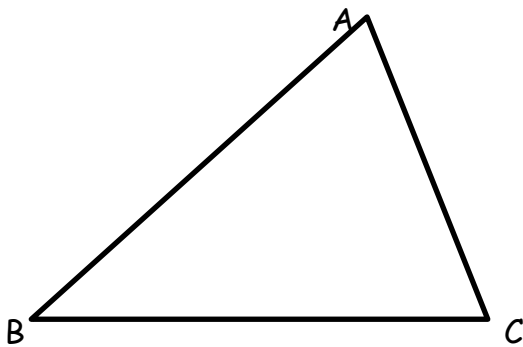
3. Using the perpendicular lines below. Construct a 45° angle.



Practice B level:

4. Construct equilateral triangle $\triangle MNP$. Then construct $\triangle QNP$ with 30° , 60° and 90° angles.

5. Construct $\triangle DEF$ congruent to $\triangle ABC$:



How do you know that the triangles are congruent? Describe the steps you used to do the construction that guarantee the two are congruent.

6. You cannot use a ruler to draw a line segment of exact length $\sqrt{2}$ units $\approx 1.414213562\dots$ However, a right triangle can help. Use what you know about special right triangles to construct a segment of length $\sqrt{2}$ units below. Given a unit is as shown.

