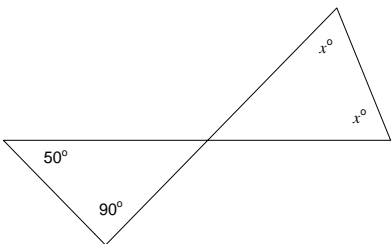
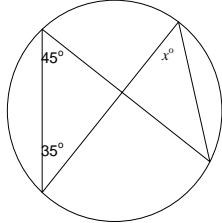
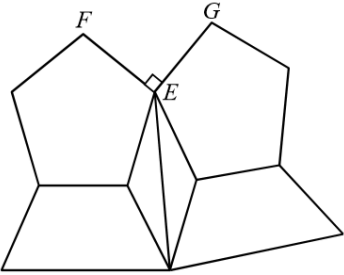


Geometry (Angle) Type of Problems in AMC

Problem	Solution
<p>AMC 8 – Beginner Level Find the value of x in the following figure.</p> 	70
<p>AMC 8 – Intermediate Level In the figure below, what is the value of x?</p>  <p style="text-align: center; font-size: small;">Figure not drawn to scale.</p>	45
<p>AMC 8 – Advanced Level (AMC 10) The following figure is composed of congruent regular pentagons, congruent isosceles triangles, and congruent isosceles trapezoids. If it is known that the $\angle FEG$ is right, what is the measure of the acute angles of the trapezoids?</p> 	$\begin{aligned} \angle AEC &= 360 - 90 - 2 \times 108 = 54 \\ \angle EAB &= 180 - 54 = 126 \\ \angle BAH &= 360 - 126 - 108 = 126 \\ \angle ABD &= 180 - 126 = \underline{54} \leftarrow \text{ans} \end{aligned}$ 