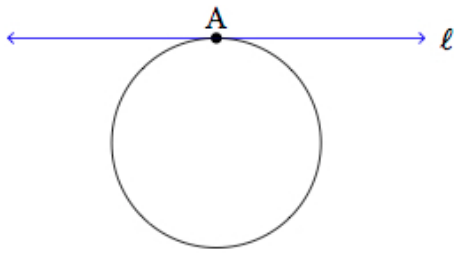


Properties of Tangents



Benchmark:

9.3.3.8: Know and apply properties of a circle to solve problems and logically justify results.

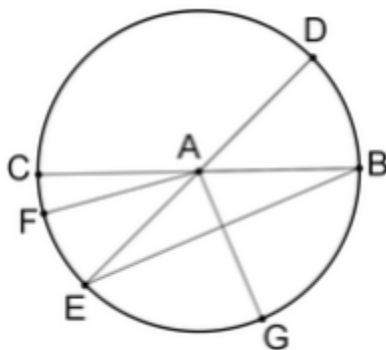
Essential Question: Can I identify the relationship between circles and tangents?

Learning Targets:

- I can apply the properties of tangents to make conclusions about relationships within a circle.
 - I can solve problems using properties of right angles.

Warm-up:

In the circle below, $\overline{CB}$ and $\overline{ED}$ are diameters, $\overline{AG}$ bisects $\angle EAB$, $m\angle DAB = 50^\circ$ and $m\angle CAF = 20^\circ$.



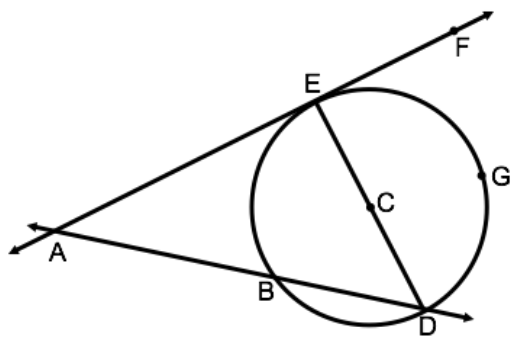
Find the following measures:

1. $m\widehat{FE}$
2. $m\widehat{CD}$
3. $m\angle EAG$
4. $m\widehat{GB}$
5. How is $\widehat{EB}$ related to $\overline{AG}$?

Central Angle Review: Solve for x. Assume the images from 7 and 8 include diameters.

6.	7.	8.	9.
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Circle Vocabulary Review: Tell whether the line or segment is best described as a radius, chord, diameter, secant or tangent of $\odot C$.



10. $\overline{DC}$

11. $\overline{DE}$

12. $\overrightarrow{AE}$

13. $\overline{BD}$

14. $\overrightarrow{BD}$