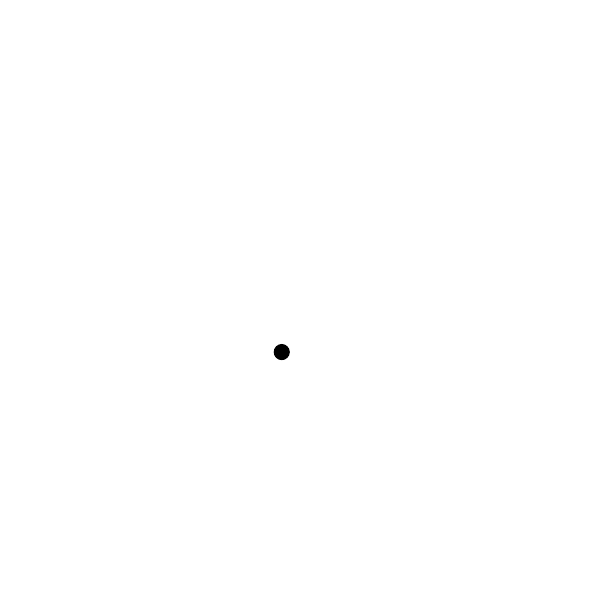
### Lesson 3 Practice Problems

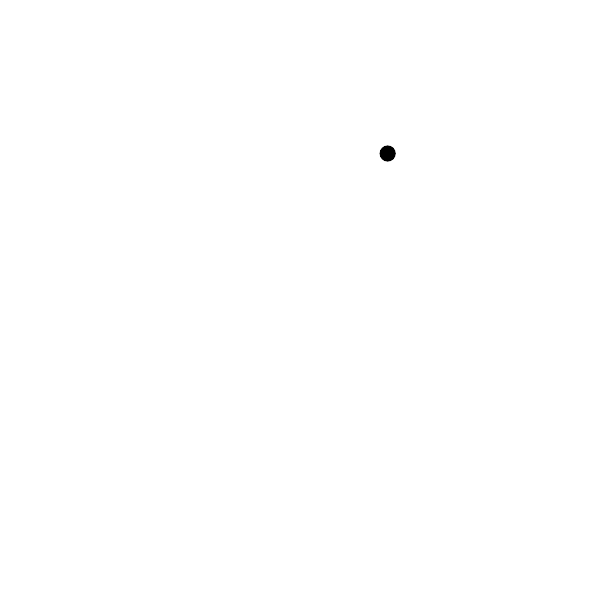
1. Line is tangent to a circle with diameter . Explain why the measure of angle must equal the measure of angle .

* 

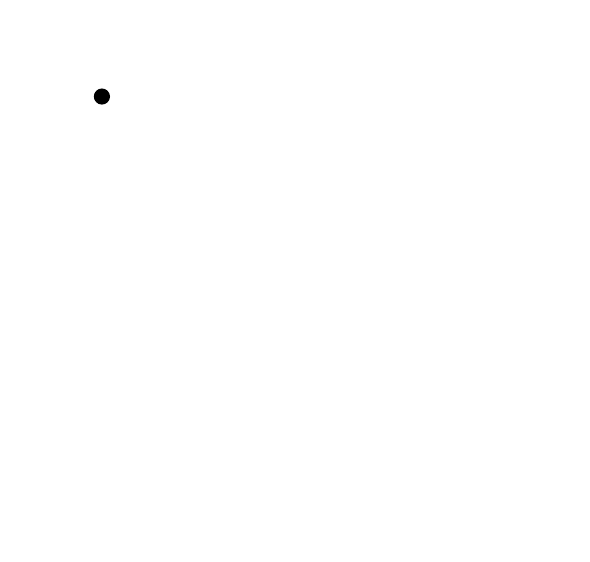
1. Line is perpendicular to the circle centered at with radius 1 unit. The length of is 1.5 units. Find the length of segment .

* 

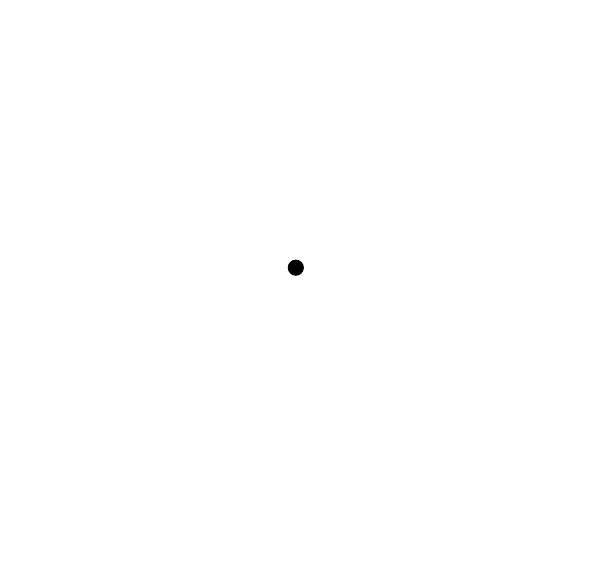
1. *Technology required.* Line is tangent to a circle of radius 1 inch centered at . The length of is 1.2 inches. The length of is 1.7 inches. Which point on the circle is closest to point ?

* 
  1. point
  2. point
  3. point
  4. point

1. The arc from to not passing through measures 50 degrees. Select **all** the true statements.

* 
  1. Angle measures 50 degrees.
  2. Angle measures 25 degrees.
  3. Angle measures 50 degrees.
  4. The arc from to not passing through measures 180 degrees.
  5. Angles and are congruent.
* (From Unit 7, Lesson 2.)

1. Chords and intersect at point . List 3 pairs of angles that *must* be congruent.

* 
* (From Unit 7, Lesson 2.)

1. The image shows a circle with diameters and . Prove that chords and (not drawn) are congruent.

* 
* (From Unit 7, Lesson 1.)

1. The line represented by is transformed by the rule . What is the slope of the image?
   1. 3
   2. -3

* (From Unit 6, Lesson 12.)



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