**Lesson #38**

**Circle Geometry: Property #1**

**SS1: Solve problems and justify the solution strategy using circle properties including:**

• **the perpendicular from the center of a circle to a chord bisects the chord**

• **the measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc**

• **the inscribed angles subtended by the same arc are congruent**

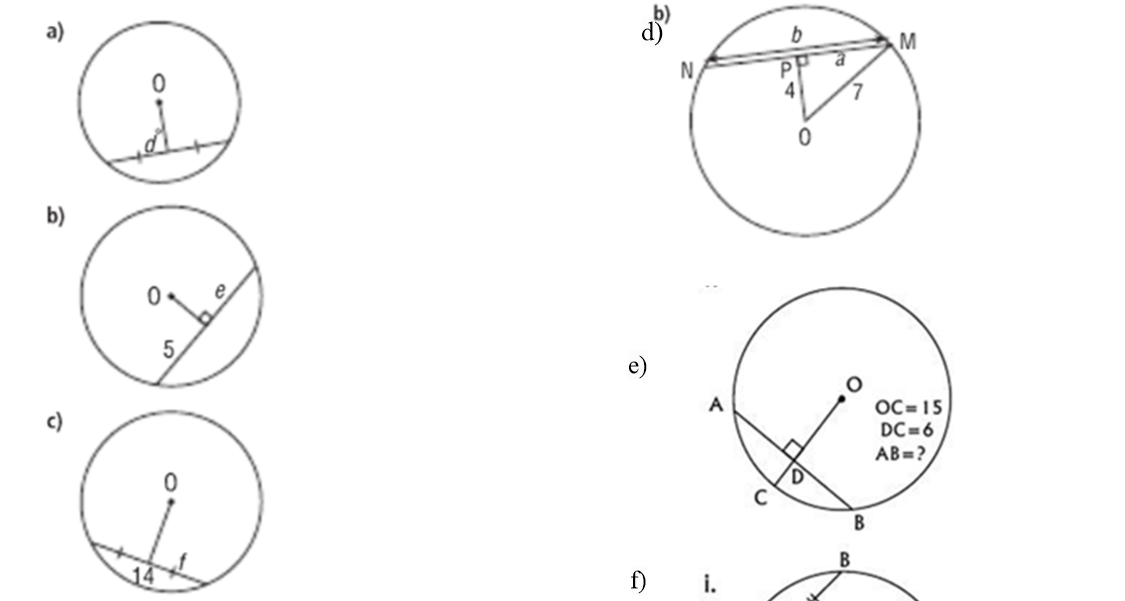
• **a tangent to a circle is perpendicular to the radius at the point of tangency.**

1. Watch the YouTube lesson <https://youtu.be/fY6fb4bUM8A>
2. Complete the following questions in your notebooks on page 79 or 79 b or 79c.

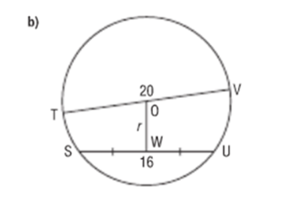
1. Explain the following terms with a drawing:

1. Chord
2. Radius
3. Diameter
4. Midpoint
5. perpendicular

2. Find the missing angles and sides:



1. Explain the Pythagorean Theorem.
2. A) Explain circle property #1 in your own words.



When you have finished, correct your answers.

