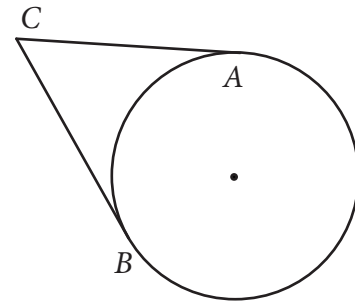
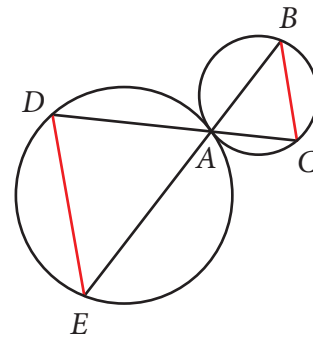


For problems 1 and 2, you will need to read parts of Euclid III. Try to read III-1 through III-32. Be sure to pay attention to III-18, III-21, and III-32.

- Using only propositions I-1 to I-32 and III-1 to III-32 prove the following. Suppose two tangents to a circle meet at a point C , and let A and B be the points of tangency. Then $|AC| = |BC|$.



- Using only propositions I-1 to I-32 and III-1 to III-32 prove the following. Suppose two circles meet at point A and that two lines are drawn through A meeting one circle at B and C and meeting the other at D and E . Prove that the lines DE and BC are parallel.



- Stillwell 2.1.2
- Stillwell 2.1.3
- Stillwell 2.1.4
- Stillwell 2.1.5
- Stillwell 2.2.2
- Stillwell 2.3.1
- Stillwell 2.3.3