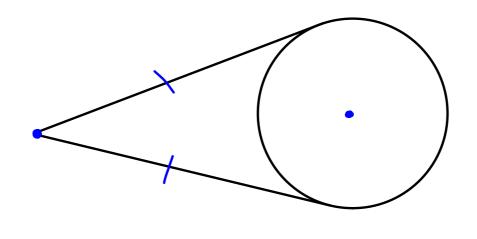
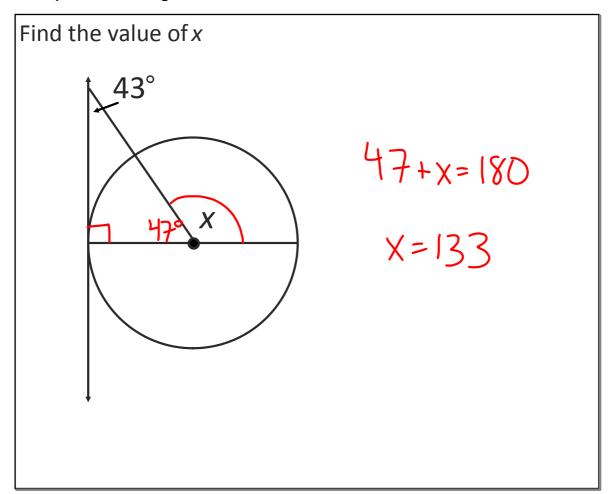


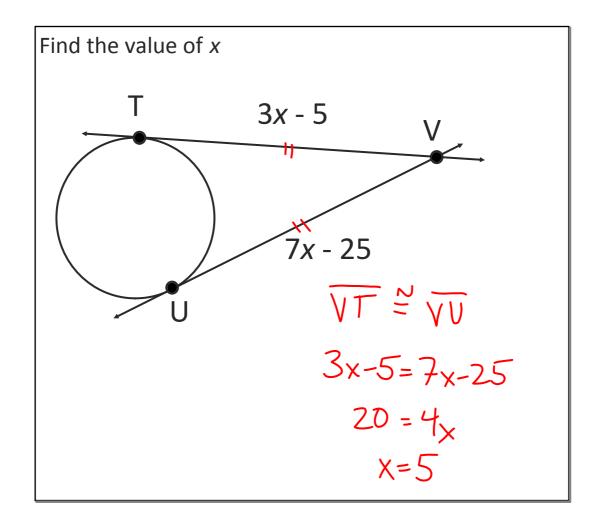
Theorem:

If two segments from the same exterior point are tangent to a circle, then they are congruent.

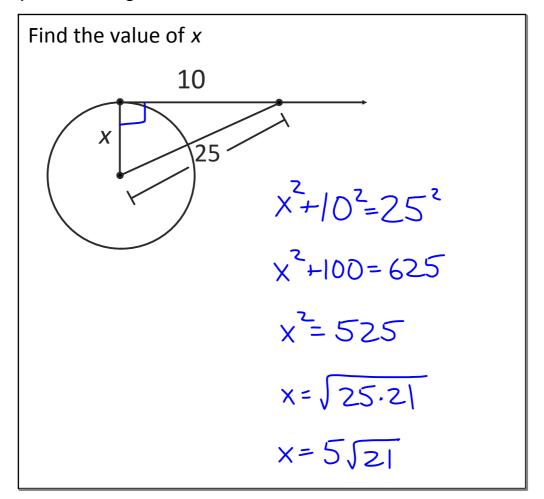


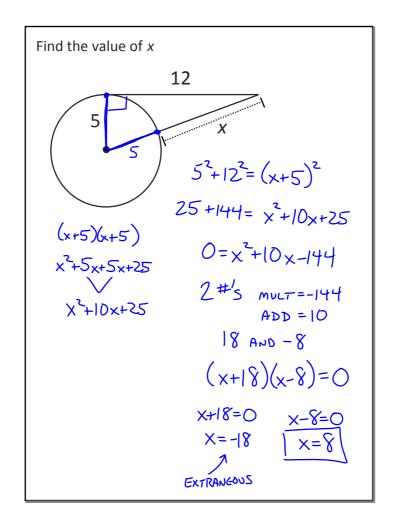
Lesson 2 - Properties of Tangents Marked



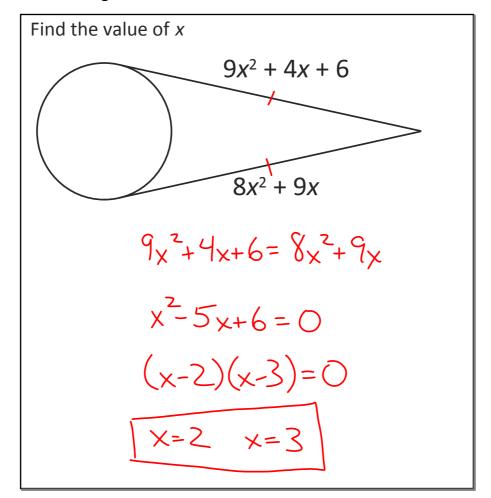


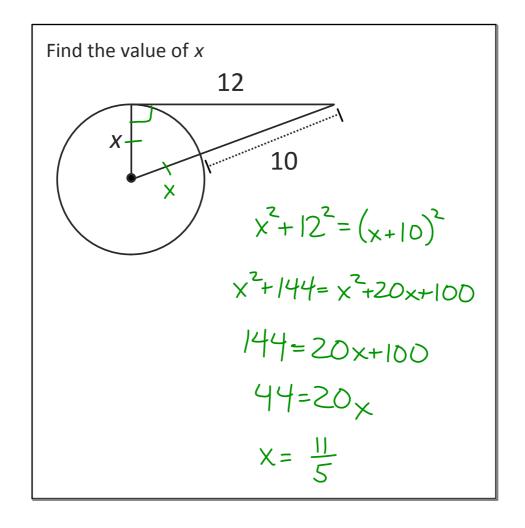
Lesson 2 - Properties of Tangents Marked



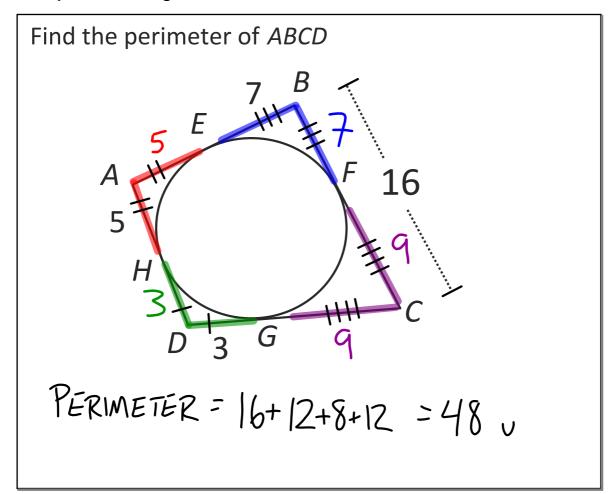


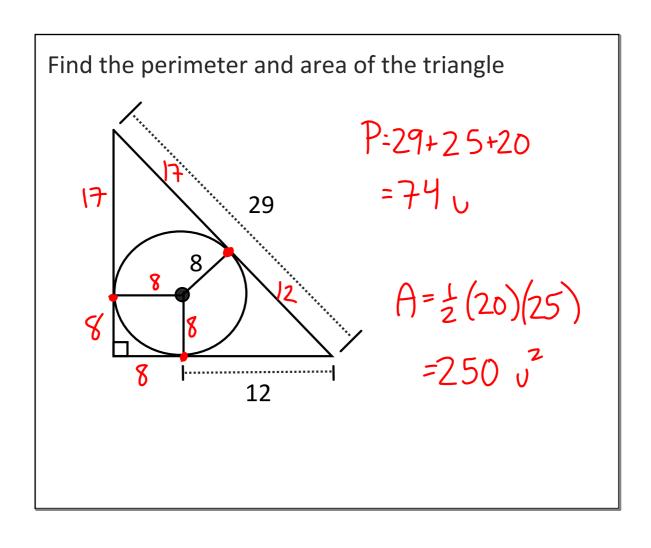
Lesson 2 - Properties of Tangents Marked





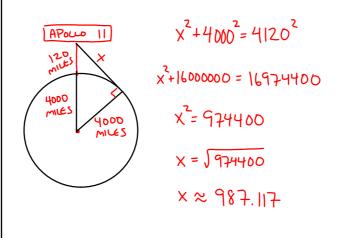
Lesson 2 - Properties of Tangents Marked





Lesson 2 - Properties of Tangents Marked

Early in its flight, the Apollo 11 spacecraft orbited Earth at an altitude of 120 miles. Given that the radius of the earth is approximately 4000 miles, what was the distance from the spacecraft to the Earth's horizon (rounded to the nearest mile).



.: APOLLO 11 IS APPROX 987 MILES FROM THE HORIZON.

A circle with radius of 8 is externally tangent to a circle with radius of 18. Find the length of the common external tangent segment.

