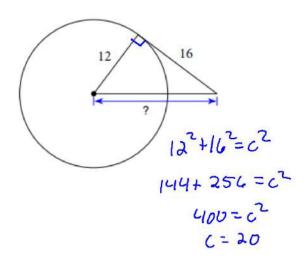
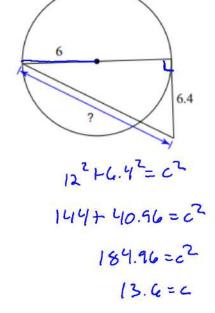
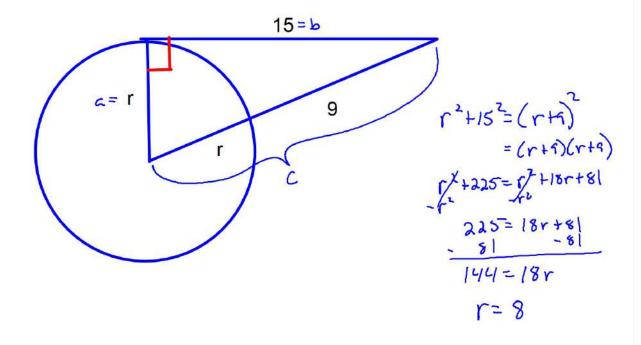
Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

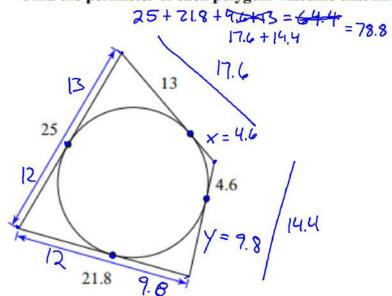


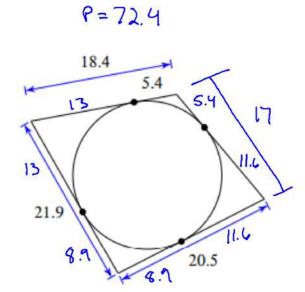


Find the length of the radius:

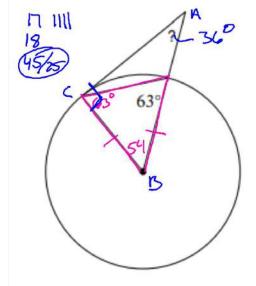


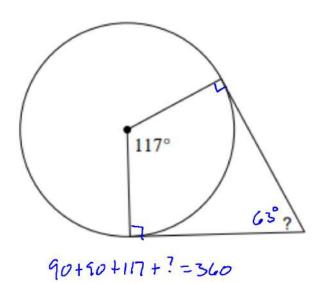
Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.



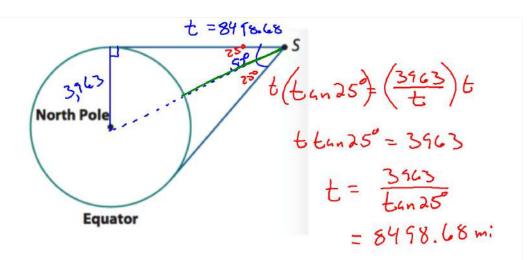


Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.





Suppose a satellite is located in space at point S. In this view of Earth in the plane of the equator, the angle between the lines of sight at S is 50°. The radius of the Earth is 3,963 miles.



What is the distance from S to the horizontal along the equator, that is, the length of a tangent from S to the Earth's surface along the equator?

How high is the satellite S above Earth's surface, that is, the length of a segment S to the closest point on Earth's surface along the equator?

