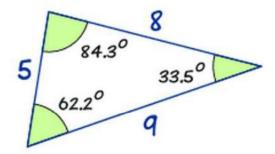
Mathematics 10D

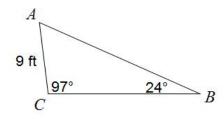
Unit 8 – Acute Triangle Trigonometry

Mr. D. Hagen

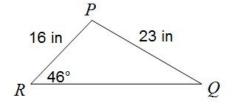
Mathematics 10D 8.1 – The Sine Law



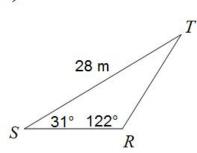
1) Find AB



2) Find $m \angle Q$



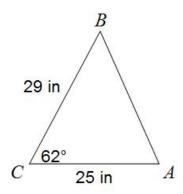
3)



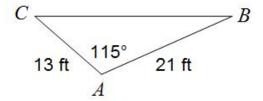
4) In $\triangle RPQ$, $m \angle R = 80^{\circ}$, q = 9 yd, r = 11 yd

Mathematics 10D 8.4 - Cosine Law

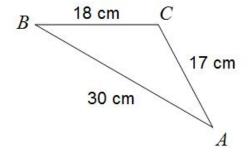
1) Find AB



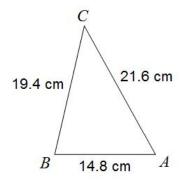
2) Find BC



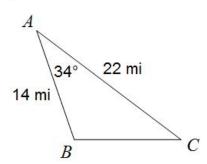
3) Find $m \angle B$



4) Find $m \angle C$







Mathematics 10D 8.5 – Solving Acute Triangle Problems

The roof of a new house must be built to exact specifications so that solar panels can be installed. The long rafters at the front of the house must be inclined at an angle of 26° to the horizontal beam. The short rafters at the back of the house must be inclined at an angle of 66°. The house is 15.3 m wide. Determine the length of the long rafters.

