Today's Learning Goal(s):

By the end of the class, I will be able:

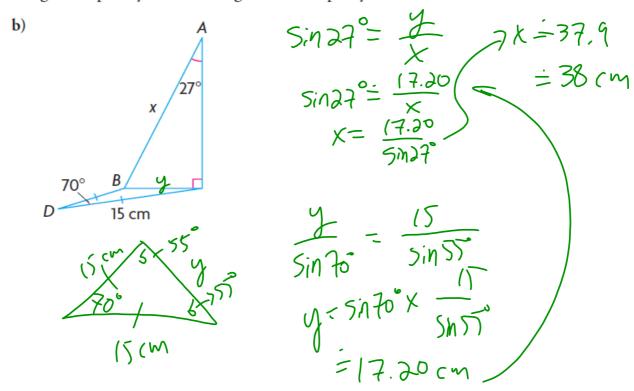
a) prepared for the Unit 5 Summative Wednesday.

Last day's work: pp. 332-335 #3 – 6 [7, 14]



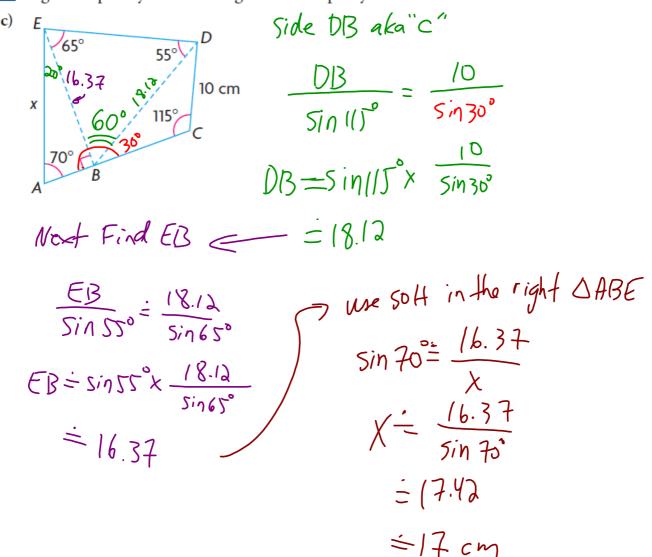
p. 332 #3

- **3.** Determine the value of x to the nearest centimetre and θ to the nearest
- K degree. Explain your reasoning for each step of your solution.

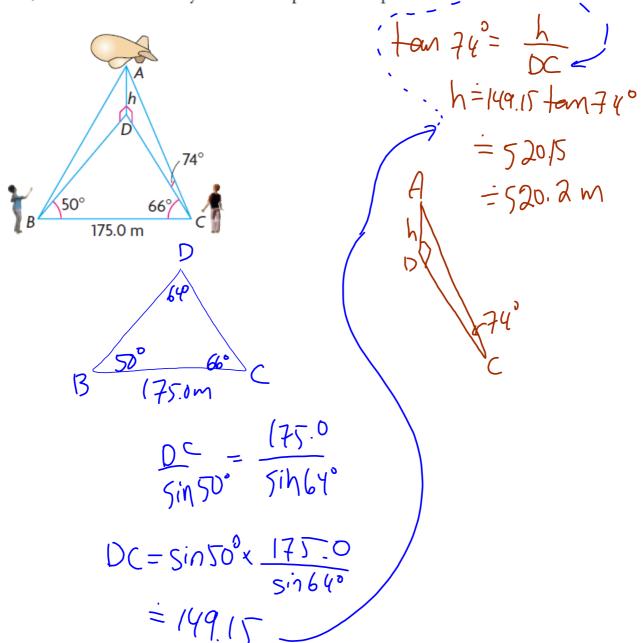


p. 332 #3

- **3.** Determine the value of x to the nearest centimetre and θ to the nearest
- K degree. Explain your reasoning for each step of your solution.



- **4.** As a project, a group of students was asked to determine the altitude, *h*, of a promotional blimp. The students' measurements are shown in the sketch at the left.
 - a) Determine h to the nearest tenth of a metre. Explain each of your steps.
 - b) Is there another way to solve this problem? Explain.



p. 333

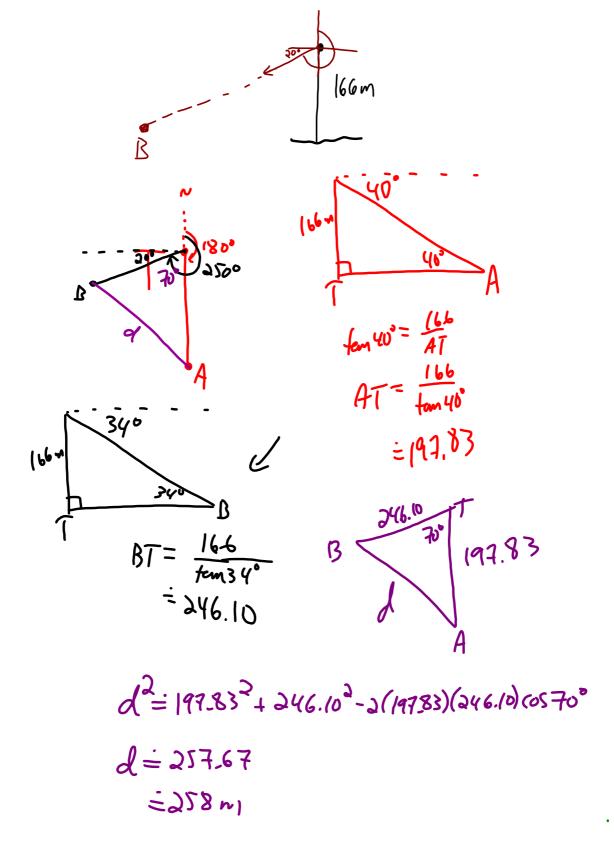
- 5. While Travis and Bob were flying a hot-air balloon from Beamsville to Vineland in southwestern Ontario, they decided to calculate the straight-line distance, to the nearest metre, between the two towns.
 - From an altitude of 226 m, they simultaneously measured the angle of depression to Beamsville as 2° and to Vineland as 3°.
 - They measured the angle between the lines of sight to the two towns as 80° . Is there enough information to calculate the distance between the two towns? Justify your reasoning with calculations.

Please remind me to explain why my answer differs from the textbook and solution manual, which are incorrect. d=6475.72+ 4318.32 -2(6475.7)(4318.320580 d= 7132.36 = 7 133 M =6475.7

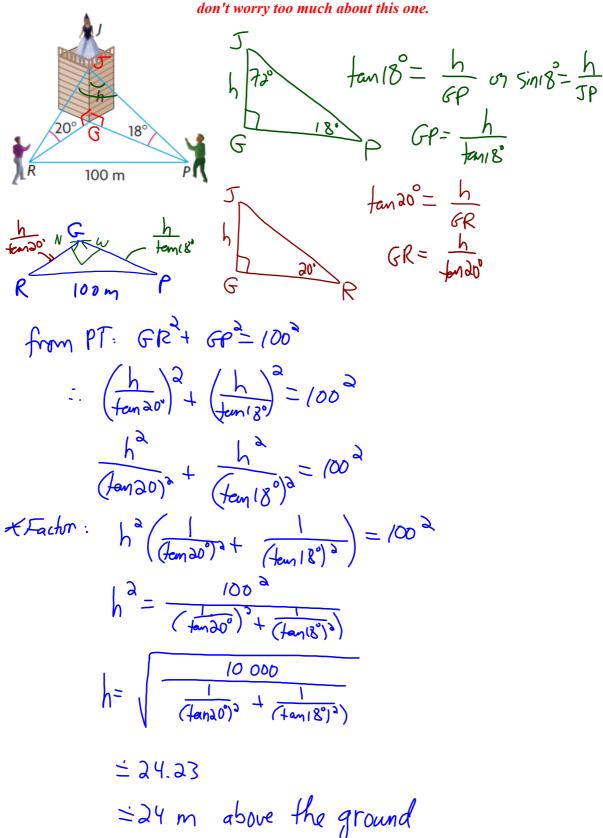
p. 333

- The observation deck of the Skylon Tower in Niagara Falls, Ontario, is
 166 m above the Niagara River. A tourist in the observation deck notices two boats on the water. From the tourist's position,
 - the bearing of boat A is 180° at an angle of depression of 40°
 - the bearing of boat B is 250° at an angle of depression of 34°

Calculate the distance between the two boats to the nearest metre.



p. 333 7. Suppose Romeo is serenading Juliet while she is on her balcony. Romeo is facing north and sees the balcony at an angle of elevation of 20°. Paris, Juliet's other suitor, is observing the situation and is facing west. Paris sees the balcony at an angle of elevation of 18°. Romeo and Paris are 100 m apart as shown. Determine the height of Juliet's balcony above the ground, to the nearest metre. Please remind me to explain why my answer differs;



5.R Unit 5 Review Redo SWYK 5.1



- 5.1 Trig Raos of Acute Angles (6 Trig Raos)
- 5.2 Trig Raos of Special Angles (Exact Values)
- 5.3 Trig Raos of Obtuse Angles (Angles in Standard Posion)
- 5.4 **CAST** Rule & Related Acute Angles (RAA; β vs θ)
- 5.4 Evaluang Trigonometric Raos for $0^{\circ} \le \theta \le 360^{\circ}$ (Both answers)
- 5.6 The Sine Law (& Ambiguous Case)
- 5.7 The Cosine Law
- 5.8 Solving 3-Dimensional Problems Using Trigonometry

Today's Homework Practice includes:

pp. 338-339 #1 – 5, 8 – 13 p. 340 #2