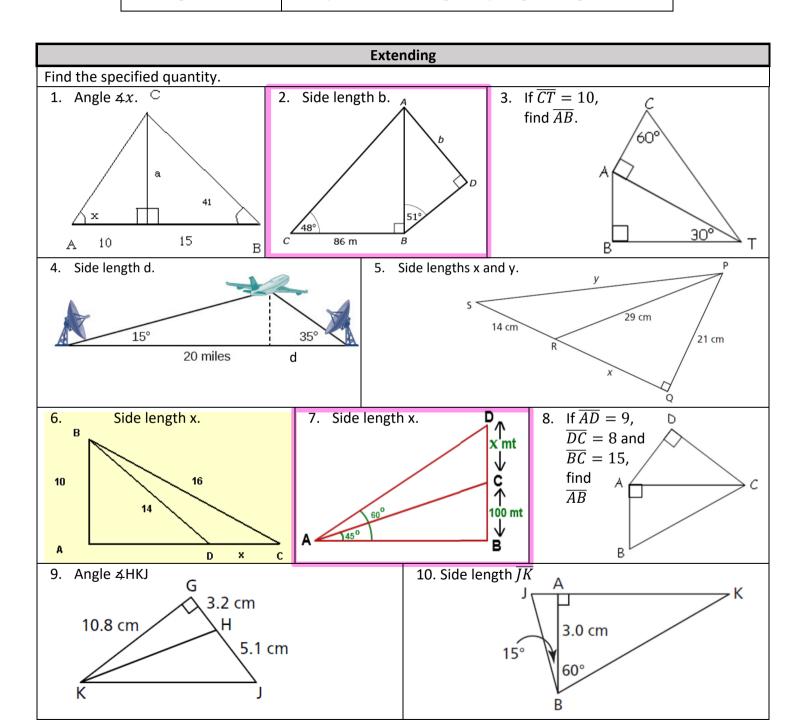
Chapter 2 Review

For each type of question, the achievement level is indicated. Showing work is an important strategy in communicating your knowledge and ideas so please be thorough.

Learning Goal 2.2

Solve problems involving multiple right triangles.



$$tan C = \frac{C}{a}$$
 $sin B = \frac{b}{c}$
 $86 \times tan 48 = \frac{C}{86} \times 86 \times 5in 61 = \frac{b}{95.5} \times 95.5$
 $C = 86 \times tan 48$
 $C = 95.5 \text{ m}$ $c = 95.5 \times 5in 51$
 $c = 95.5 \text{ m}$ $c = 74.2 \text{ m}$

I. find
$$\overline{AB}$$
 (using $\triangle ABC$)

$$tan(CAB) = \overline{CB}
\overline{AB}$$

$$\overline{AB} \times tan(45) = \underline{100} \times \overline{AB}$$

$$\overline{AB} tan45 = \underline{100}$$

$$tan45$$

$$\overline{AB} = \underline{100} \text{ m}$$

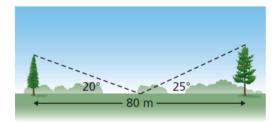
2. find
$$\overline{DB}$$
 (using $\triangle ABD$) tan $(DAB) = \overline{DB}$
 AB
 $|DD \times AB| = |DD \times AB|$
 $|DD \times AB| = |DD \times AB|$

3.
$$\overline{DC} = \overline{DB} - \overline{CB} = 173.2 - 100 = 73.2 \text{ m}$$

Date:

Chapter 2 Review

11. Two trees are 80 m apart. From a point halfway between the trees, the angles of elevation of the tops of the trees are measured. What is the height of each tree to the nearest metre?



12. At the Muttart Conservatory, the arid pyramid has 4 congruent triangular faces. The base of each face has length 19.5 m and the slant height of the pyramid is 20.5 m. What is the measure of each of the three angles in the face? Give the measures to the nearest degree.

