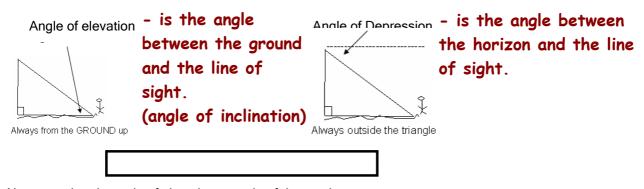
Monday, October 3rd

Show this video to start... "Gettin' TRIGGY with it!"

Click on the globe



ANGLES OF ELEVATION/DEPRESSION



Also, note that theangle of elevation – angle of depression

EXAMPLE 1:

Using Sine or Cosine to Solve a Problem

A water bomber is flying at an altitude of 5000 ft. The plane's radar shows that it is 8000 ft. from the target site. What is the **angle of elevation** of the plane measured from the target site, to the nearest degree?



SOLUTION (move box to show)

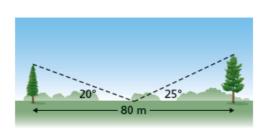
2.4 The Sine and Cosine Ratios

EXAMPLE #2:

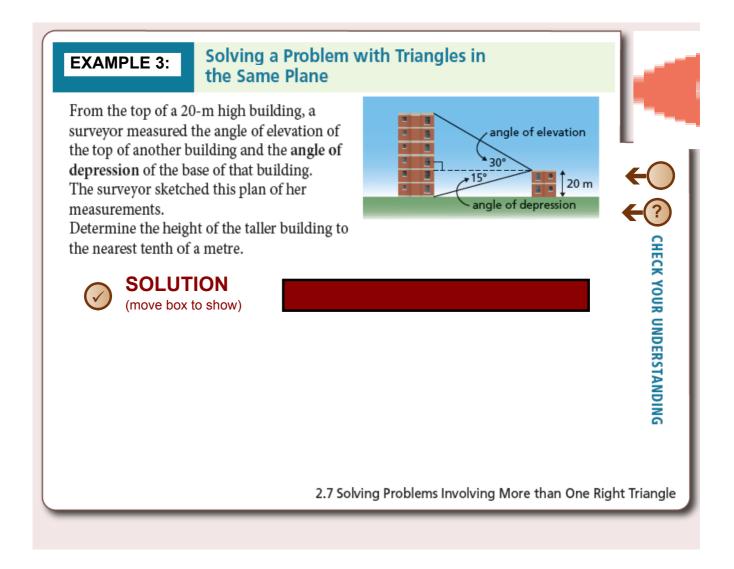
Two trees are 80 m apart. From a point halfway between the trees, the angles of elevation of the tops of the trees are measured. What is the height of each tree to the nearest metre?





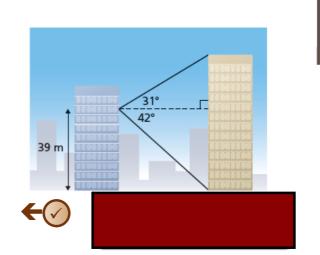


2.7 Solving Problems Involving More than One Right Triangle



YOUR TURN...

A surveyor stands at a window on the 9th floor of an office tower. He uses a clinometer to measure the angles of elevation and depression of the top and the base of a taller building. The surveyor sketches this plan of his measurements. Determine the height of the taller building to the nearest tenth of a metre.





2.7 Solving Problems Involving More than One Right Triangle

HOMEWORK...

Booklet Exercise 10.8: #1 - 6