

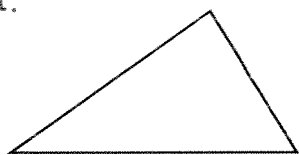
2.1: Trigonometry and Trig Ratios

Recall: θ is the Greek letter _____ and usually represents angles

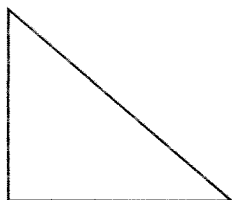
Topic #1: All angles in a triangle sum to _____.

Examples: Find the missing angles in the triangles below:

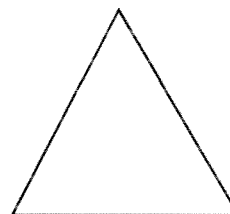
1.



2.

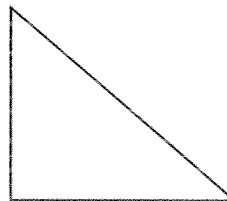
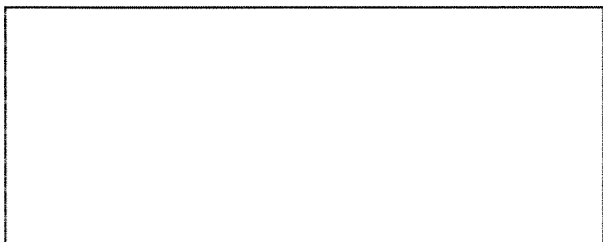


3.

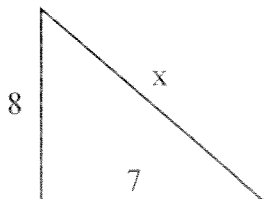


Topic #2: Pythagorean Theorem

Used to relate lengths of sides in _____.



Example: Find the missing side using Pythagorean Theorem



MBF3MI: UNIT 2 – Trigonometry

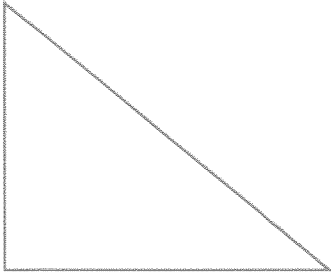
Topic #3: Angles of Elevation/Depression

Topic #4: Drawing Diagrams

- Use a ruler
- Unless identified, you cannot measure from any diagram in this section of the course

Example: A plane is taking off from a run way and climbs to an altitude of 1200m. The angle of elevation is 15 degrees.

Topic #5: Primary Trig Ratios



The primary trig ratios are:

$$\sin\theta =$$

$$\cos\theta =$$

$$\tan\theta =$$

Use your calculator to evaluate and/or solve the following:

1. $\sin 55^\circ =$

2. $\cos 29^\circ =$

3. $\tan \theta = 3.27$

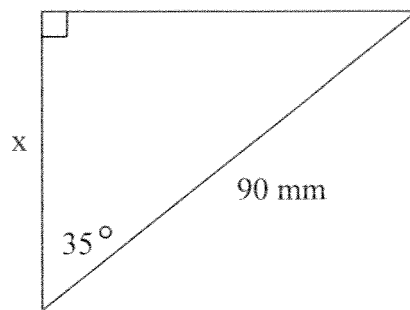
4. $\sin \theta = \frac{3}{8}$

5. $\cos 70^\circ = \frac{x}{12}$

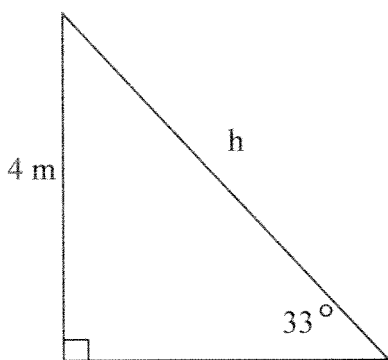
6. $\frac{x}{6} = \sin 35^\circ$

7. $\cos \theta = \frac{4}{7}$

8. Find x .



9. Find h



10. Find x and y .

