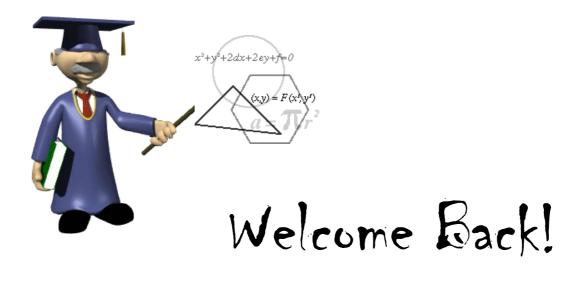
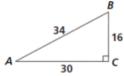
L9.3



Lesson Quiz

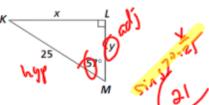
Lesson 9-2

Use this figure for Exercises 1 and 2.



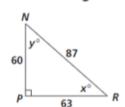
Write the ratios for sin A and sin B.
 Write the ratios for cos A and cos B.

Use this figure for Exercises 3 and 4.



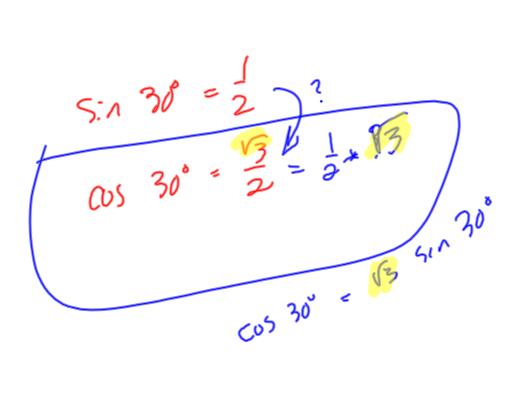
4. Find y to the nearest tenth. 3. Find x to the nearest tenth.

Use this figure for Exercises 5 and 6.



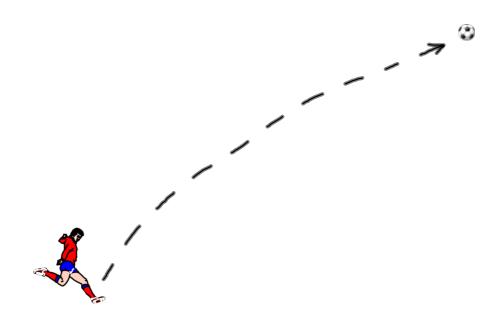
5. Find x to the nearest degree.

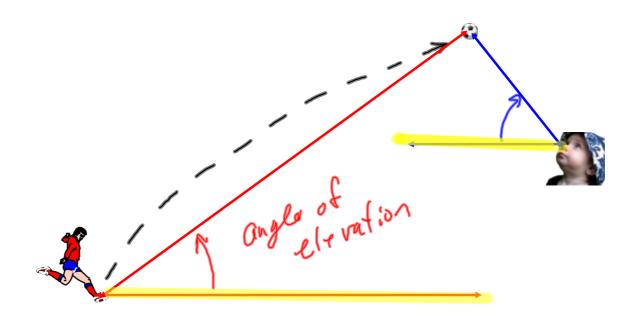
6. Find y to the nearest degree. ψ_0











Defn: Angle of Elevation

L9.3

Angle measured from a horizontal line through the view point up to the object above it.

horiz

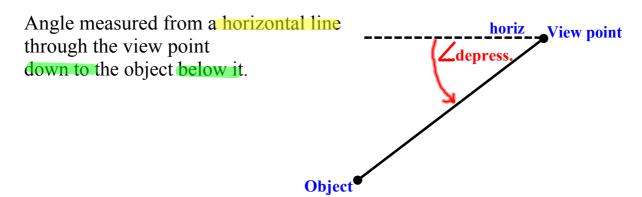
Object

View point

Zelev

Defn: Angle of Depression

L9.3



*** From / to relation	onship ***	
From the viewp	ooint	
to		
relative to	thru	

*** From / to relationship ***

From the viewpoint to the object relative to _____ thru ____.

*** From / to relationship ***

From the viewpoint to the object relative to horiz. line thru _____.

*** From / to relationship ***

From the viewpoint to the object relative to horiz. line thru viewpt.

L9.3

*** From / to relationship ***

From the viewpoint to the object relative to horiz. line thru viewpt.

Elevation: object is _____

Depression: object is _____

L9.3

*** From / to relationship ***

From the viewpoint to the object relative to horiz. line thru viewpt.

Elevation: object is ABOVE

<u>Depression</u>: object is _____

L9.3

*** From / to relationship ***

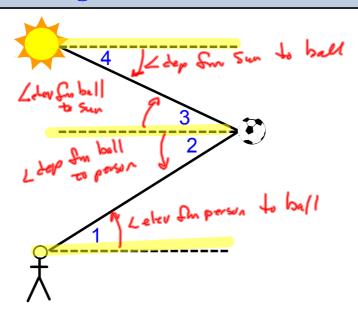
From the viewpoint to the object relative to horiz. line thru viewpt.

Elevation: object is ABOVE

Depression: object is BELOW

Describe each angle...

L9.3



Look@probs#9-12pg484...

L9.3

How do they relate to this lesson?

Look @ probs #9-12 pg 484...

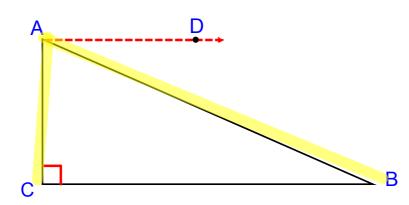
L9.3

How do they relate to this lesson?

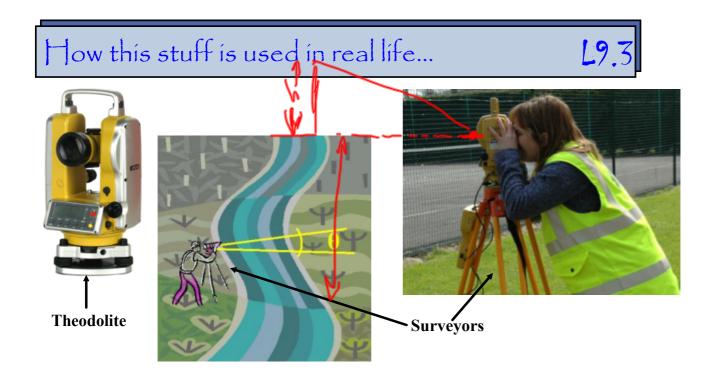
We can form a right Δ using the \angle of elev/depression... ... then use trig to solve for missing parts.

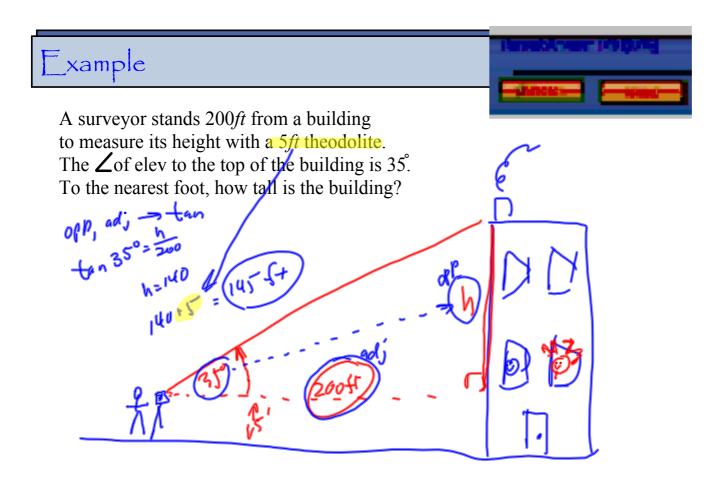
Common error...

- ∠ ABC is an angle of elevation.
- ∠ CAB is NOT an angle of depression!!!



∠ DAB is IS an angle of depression.

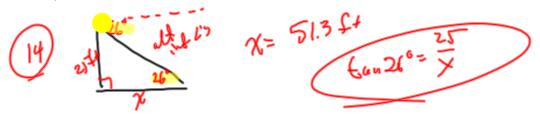


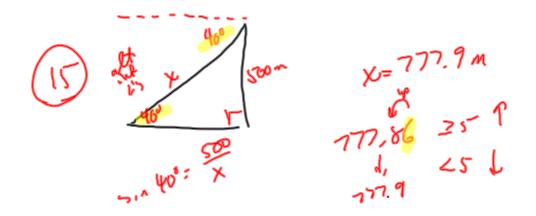


Practice...

L9.3

pg 484 #14, 15

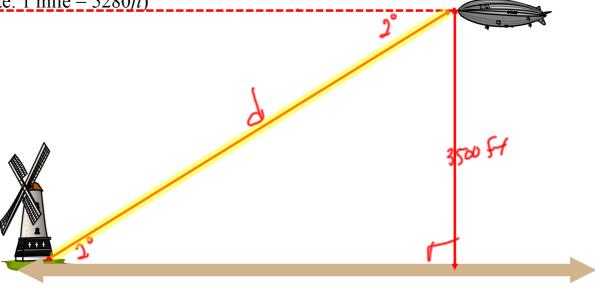




Example

An airplane flying 3500ft above ground begins a 2° descent to land at an airport. How many miles from the airport is the plane when it begins its descent?

(note: 1 mile = 5280ft)



2

L9.3 HW Problems

Pg 484 #1-21, 23, 28, 33, 34