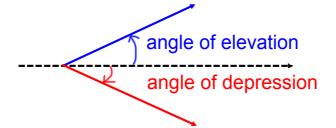


Solving Problems with Trigonometric Ratios

Terminology:

Angle of Elevation (or Inclination): the angle measured <u>above</u> the horizontal.

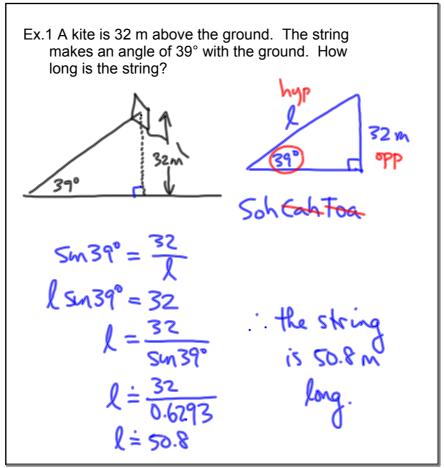
Angle of Depression (or Declination): the angle measured <u>below</u> the horizontal.



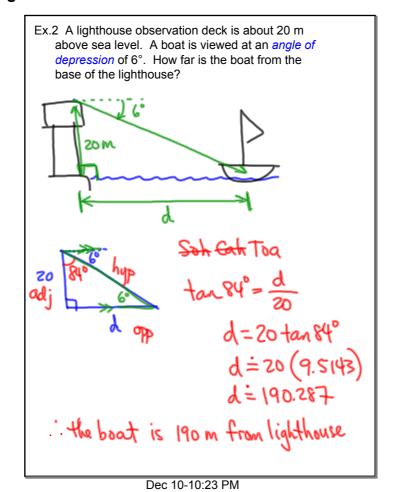
Steps:

- 1) Identify the unknown (what are you looking for?)
- 2) Label the sides of the triangle as opposite, hypotenuse, and adjacent with respect to the given angle (or the unknown if angle is what you are looking for)
- 3) Identify the trigonometric ratio that relates to the unknown and two of the unknowns OR Pythagorean Theorem OR the sum of the angles in a triangle.
- 4) Solve

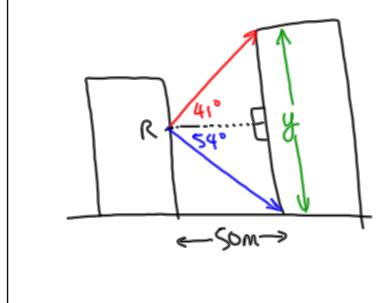
May 13-12:15 PM

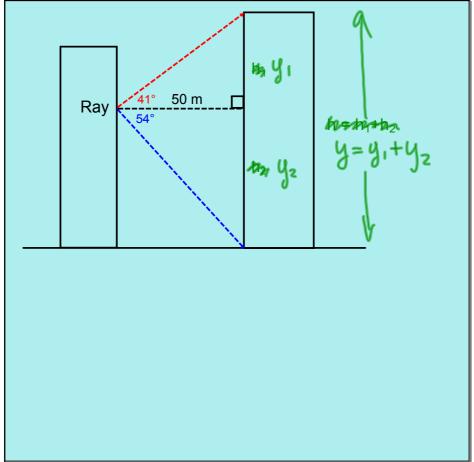


Dec 10-10:22 PM

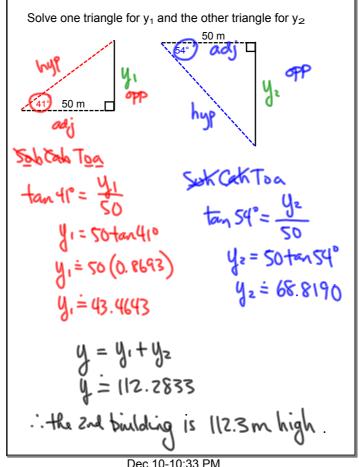


Ex.3 From the window of a building, Ray finds the angle of elevation to the top of a second building to be 41°. The angle of depression to the bottom is 54°. The buildings are 50 m apart. How tall is the second building?





Dec 10-10:33 PM

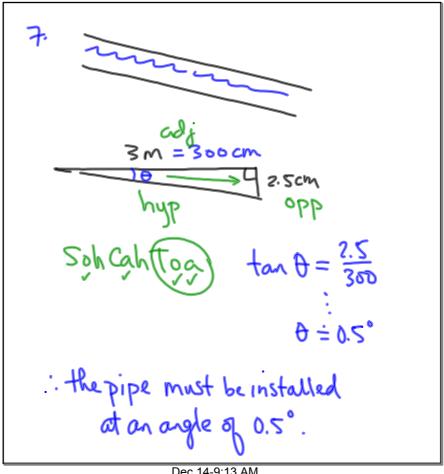


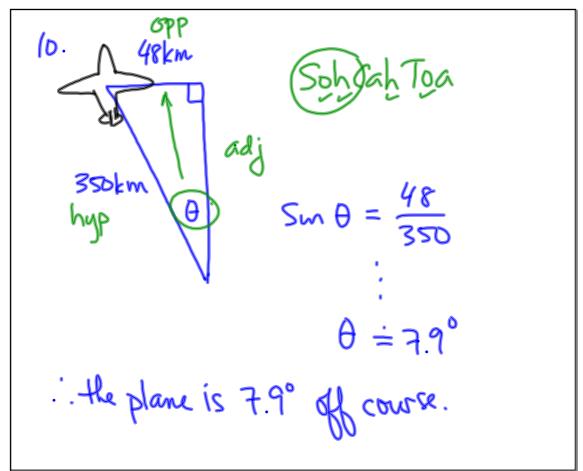
Dec 10-10:33 PM

Assigned Work:

p.412 # 2, 3, 7, 10, 11

Dec 10-10:43 PM





Dec 14-9:18 AM

