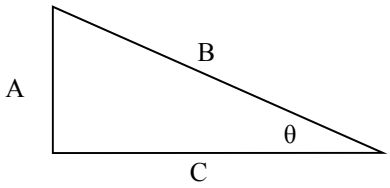
PreAP: due Mon, Sept 12 (Assigned: Thurs, Sept 8)
Reg: due Tues., Sept 13 (Assigned: Fri., Sept 9)

Trigonometry Review

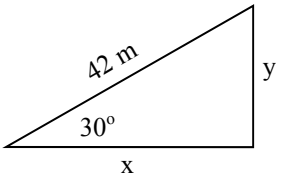
If you need help: 1) refer to the notes given; 2) go to the website: "Physics Study Helps", then "Trigonometry". (And BIG hint: make sure your calculator is on "Degrees" and not "Radians". Not sure? Sin 30° = 0.5.

1. On ***Triangle 1***, which letter is opposite angle θ?
2. On ***Triangle 1***, which letter is adjacent to angle θ?
3. On ***Triangle 1***, which letter represents the hypotenuse?
4. Write the equations for sin, cos, and tan for ***Triangle 1***.



Triangle 1

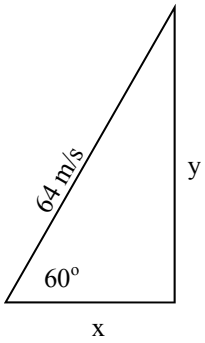
5. On triangle 2, assign variables (opposite, adjacent, hypotenuse, θ).
   opposite =
   adjacent =
   hypotenuse =
   θ =



Triangle 2

6. Using sin, cos, or tan, find "y" for ***Triangle 2*** (known as the "y-component" of "42 m").

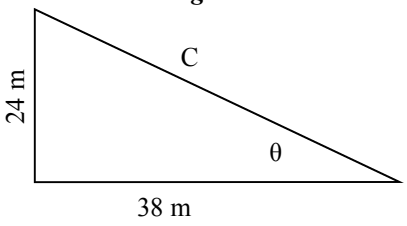
7. On ***Triangle 3***, follow the same procedures above to find the x—component.



Triangle 3

8. Find the y – component of ***Triangle 3***.

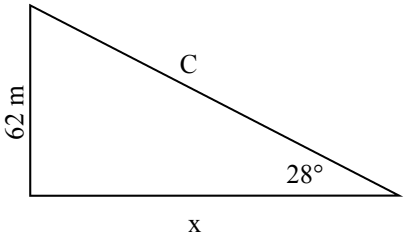
9. Find the hypotenuse of ***Triangle 4***.



Triangle 4

10. Find θ for ***Triangle 4***.

11. Find the hypotenuse and x-component of ***Triangle 5.***
    (Assign variables and use Trig. Formulas.)



Triangle 5