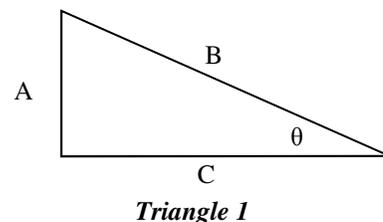
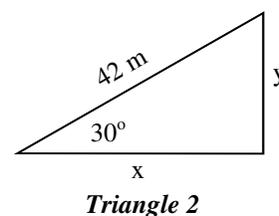


If you need help: 1) refer to the notes given; 2) go to the website: "Physics Study Helps", then "Trigonometry".
(And BIG hint: make sure your calculator is on "Degrees" and not "Radians". Not sure? $\sin 30^\circ = 0.5$.)

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**. (Ex. $\tan = F/G$)

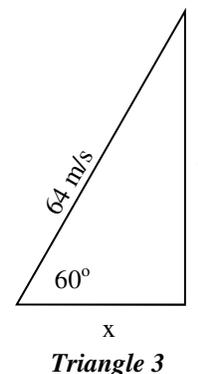


5. On triangle 2, assign variables (opposite, adjacent, hypotenuse, θ).
opposite =
adjacent =
hypotenuse =
 θ =



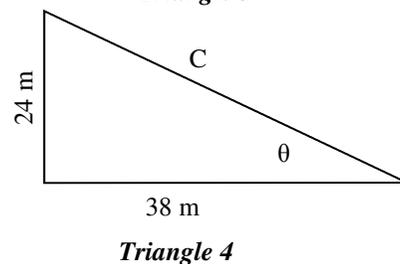
6. Using sin, cos, or tan, find "y" for **Triangle 2** (known as the "y-component" of "42 m").

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



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

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



10. Find θ for **Triangle 4**.

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

