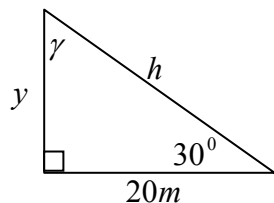


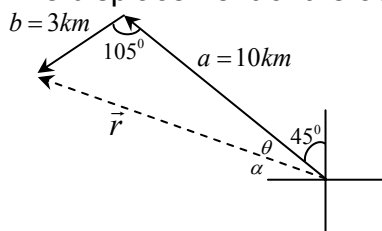
1. Solve for the following unknowns, using trig relationships only.



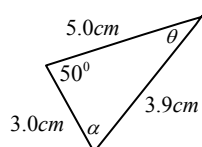
- a) find h
 b) find γ
 c) find y

2. In the vector diagram below find

- a) The length of the resultant
 b) Find θ
 c) The displacement of the object written in proper vector format



3. Solve for θ and for α



4. The volume of a cylinder can be found by the formula $V = \pi r^2 h$. If the volume of a cylinder is $10m^3$. Find the new volume if
- a) The height is double.
 b) the radius is cut in half.
 c) the height is cut in half but the radius is doubled.