

Worksheet 2015-8EN-00003(1)

(1) Are the following statements true or false?

(a) All right- angled triangles are isosceles triangles as well.

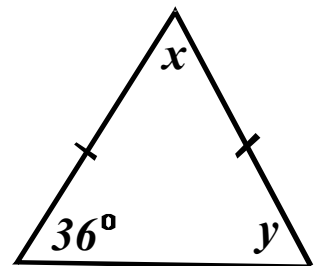
(b) The sum of the interior angles of an equilateral triangle is 180° .

(c) The theorem of Pythagoras can only be applied in a right-angled triangle.

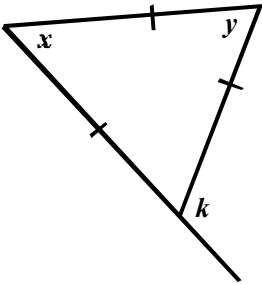
(d) The angles opposite the equal sides of an isosceles triangle are equal in size.

(2) Determine the value(s) of x , y and/or k in each of the following sketches. Also give complete reasons.

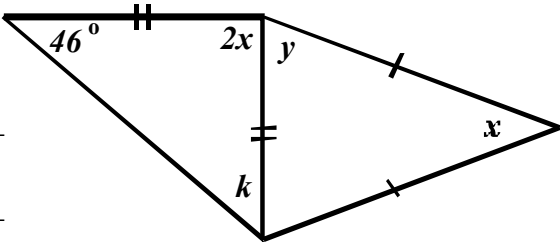
(a)



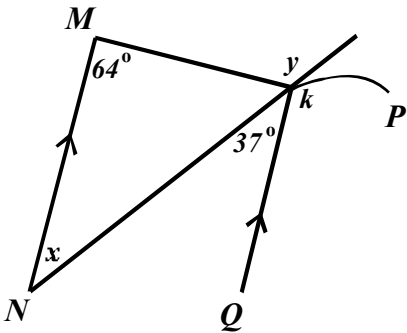
(b)



(c)



(d)

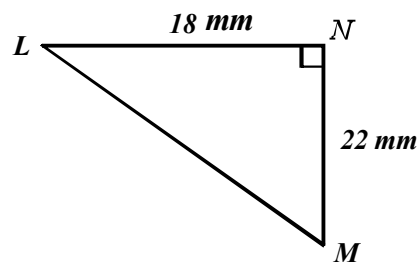


(3) Calculate the length of the unknown side in each of the following:

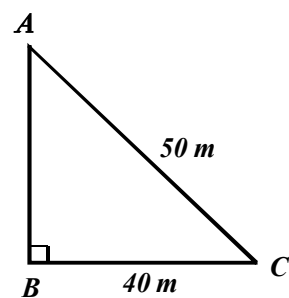
If necessary, leave your answer in surd form.

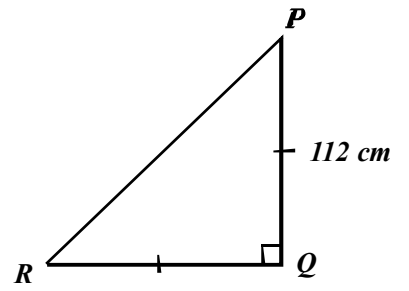
Also calculate the area of each triangle.

(a)



(b)



[illegible]

- (6) Calculate the area of PQRS,
if $AS = 34$ mm, $BQ = 16$ mm,
 $AB = BR = 7$ mm and $AP = 6$ mm

