

## Quiz 1 - Monday

Sep 16, 2024

Name:

Student Number:

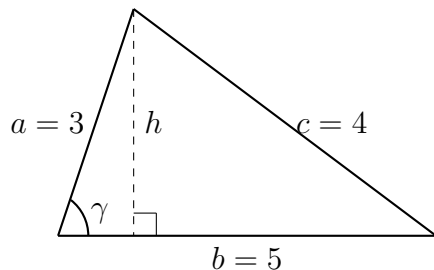
We have a scalene triangle with sides  $a = 3$ ,  $b = 5$ ,  $c = 4$ , and a given surface area of 6. One of the ways to calculate the surface area of the triangle is using the formula:

$$\text{Area} = \frac{h \times b}{2}$$

We also know that:

$$\sin(\gamma) = \frac{h}{a}$$

Using the given parameters, write a C code that finds the value of  $\sin(\gamma)$  and prints it with two decimal places. The code must be fully functional in any OS (no warnings or errors).



**Constraint:** Although  $\sin(\gamma)$  is a floating-point number, the given parameters **must** be initialized as integer values:

```
int a = 3, b = 5, c = 4, area = 6;
```