

## QUIZ 6

### COMP9021 PRINCIPLES OF PROGRAMMING

For clarifications on expected outputs, see Ed or program stub.

Note: Numeric values will be checked with only 4 digits after the decimal point

```
$ python3
...
>>> from quiz_6 import *
>>> p1 = Point(1,2)
>>> p2 = Point(4,8)
>>> p3 = Point(2,4)
>>> triangle = Triangle(point_1 = p1, point_2 = p2, point_3 = p3)
Traceback (most recent call last):
...
quiz_6.TriangleError: Incorrect input, triangle not created.
>>> p3 = Point(3,5)
>>> triangle = Triangle(point_1 = p1, point_2 = p2, point_3 = p3)
>>> triangle.perimeter
13.476032868131739
>>> triangle.area
1.50000000000000078
>>> p3 = Point(2,4)
>>> triangle.change_point_or_points(point_3 = p3)
Incorrect input, triangle not modified.
>>> triangle.perimeter
13.476032868131739
>>> triangle.area
1.50000000000000078
>>> p0 = Point(0,0)
>>> p3 = Point(0,4)
>>> triangle.change_point_or_points(point_3 = p3, point_1 = p0)
>>> triangle.perimeter
18.60112615949154
>>> triangle.area
7.9999999999999994
>>> triangle.change_point_or_points(point_2 = Point(4,0))
>>> triangle.area
7.999999999999997
>>> triangle.change_point_or_points(point_3 = Point(4,0))
Incorrect input, triangle not modified.
>>> triangle.change_point_or_points(point_3 = Point(4,8))
>>> triangle.area
16.0
>>> triangle.perimeter
20.94427190999916
```