

CSC108H Winter 2019 Worksheet: Functions and Booleans

Complete the following functions.

1. `def same_abs(num1: float, num2: float) -> bool:`
 `"""Return True if and only if num1 and num2 have the same absolute value.`

```
>>> same_abs(-3.2, 3.2)
True
>>> same_abs(3.0, 3.5)
False
"""
```

2. `def different_types(obj1: object, obj2: object) -> bool:`
 `"""Return True if and only if obj1 and obj2 are of different types.`

```
>>> different_types(3, '3')
True
>>> different_types(108.0, 3.14)
False
"""
```

3. *An extra exercise to try at home.*

```
def is_right_triangle(side1: int, side2: int, hypotenuse: int) -> bool:
    """Return whether a triangle with sides of length side1, side2 and
    hypotenuse is a right triangle.
```

```
>>> is_right_triangle(3, 4, 5)
True
>>> is_right_triangle(2, 2, 4)
False
"""
```