

## Worksheet: Coordinate Class

Write class `Coordinate` that has:

- Two private fields, `x` and `y`, each of which stores a real number.
- A constructor that takes two parameters to set fields `x` and `y`, respectively.
- A getter for each of the fields.
- An instance method named `distance` that takes in two real number parameters that represent `x` and `y` coordinates, and calculates the distance the `Coordinate` object is from those coordinates.
- Another instance method named `distance` that takes in a `Coordinate` object parameter and calculates the distance “`this`” `Coordinate` object is from the `Coordinate` object parameter.

Write the class in the space below and on the reverse of this paper, then write a short `TestCoordinate` class that tests the `distance` method of the `Coordinate` class.