**Spiderman Rotations**

Spiderman always attaches the web he swings by to the origin (0,0) as it is a solid base.

Below Spidey is practising swinging to land in certain positions:



Complete the descriptions of the rotations Spidey uses during his practise session:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Start** | **Finish** | **Centre** | **Direction** | **Degrees turned** |
| A | B | (0,0) |  |  |
| B |  | (0,0) | Clockwise | 180° |
|  | A | (0,0) | Anti-Clockwise | 270° |
| C |  | (0,0) | Clockwise | 90° |

Spidey needs to put his practise to the test. In order the catch a criminal Spidey needs to be in the same quadrant (part of the grid) as them.

Describe what rotations Spidey must perform in order to capture each criminal:





*Extension – describe all of them but don’t forget where Spidey’s got to and the order they have to be captured in:*



In this order:

1. Doctor Octopus
2. Venom



In this order:

1. Venom
2. Doctor Octopus
3. Green Goblin