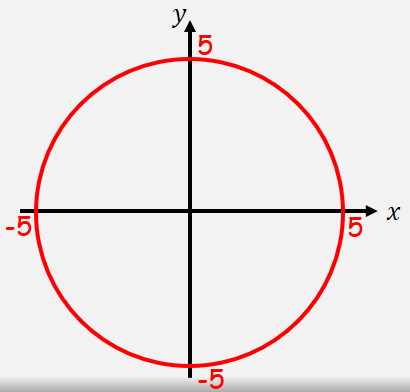
**9H Implicit Differentiation**

1. Differentiate the following equation implicitly:
2. Below is a sketch of the circle with equation , , .

Find the gradient of the curve where



1. Find in terms of and when:
2. Given that , find the value of at the point (1,1)
3. Find the value of at the point (1,1), when: