## Learning outcomes

After completing this section, you will inshaAllah be able to

1. find derivatives of functions defined implicitly
2. find derivatives of expressions involving inverse trigonometric functions
3. find higher order derivatives of implicitly defined functions

## How to perform implicit differentiation?

Recall:
What are implicitly defined functions?

- See class explanation
- We learn implicit differentiation with the help of examples.

See examples 1, 2, 3, 4, 5, 6, 7, 8 done in class

## Differentiation formulas for inverse trigonometric functions


useful
when

To learn how to find higher order derivatives for implicitly defined functions.

End of 3.5

