

Implicit Differentiation : 1

In each case the given function can be differentiated implicitly OR explicitly.

Work out BOTH answers and confirm they are the same.

1) $x^2 + y^2 = 25$

2) $3x^2 + y^2 = 18$

3) $2x^2 + 5y^2 = 20$

4) $5x^2 - 2y^2 = 8$

5) $xy = 5$

6) $x^2y = 7$

7) $ye^x = 4$

8) $y^2x = 1$

9) $x^2y + y = 4$