

1 Continuous and discontinuous functions

Marks

1. Draw a graph that is:

[5]

- A. Continuous
- B. Discontinuous

2. State whether each of the following graph are continuous or discontinuous

[1]

A. $x^2 + y^2 = 2$

B. $\frac{1}{x^2+9}$

C. $y = 2^x$

D. $|x - 2|$

3. For what values of the graph

[1]

$$y = \frac{2}{x - 4}$$

discontinuous?