#### BITS PILANI, DUBAI CAMPUS INTERNATIONAL ACADEMIC CITY, DUBAI

First Year – Semester I (2022-23)
Mathematics 1 (MATH F111)
Mid Semester Examination (OPEN BOOK)

Date: 31.10.2022 Time: 90 minutes

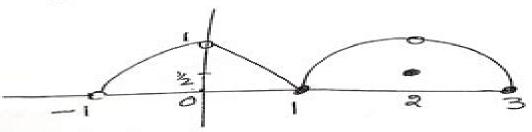
Max. Marks: 90 Weightage: 30%

#### Answer all the questions. Each question carries 10 marks

- 1. (a) Sketch the curve  $|r| \le 3$  and  $\theta = \frac{7\pi}{4}$ .
  - (b) Sketch the curve  $0.5 \le r \le \sin 2\theta$
- 2. By showing the symmetry sketch the curve  $r = 6 + 4 \sin \theta$ .
- 3. Find the area inside the curve  $r = 2\cos\theta$  and outside of the curve  $r = \cos\theta$
- 4. Find the area inside the inner loop of  $r = 1 2\sin\theta$
- 5. Find the length of the curve  $r = \sqrt{1 + \cos 2\theta}$ ,  $0 \le \theta \le \frac{\pi}{2}$
- 6. Sketch the conic and also mark the foci, centre, and vertices of

$$r = \frac{32}{8 - \sin \theta}$$

Find the points of continuity and discontinuity with justification by finding right/left hand limits of following function.



8. Find  $\delta > 0$ , for given function

$$f(x) = 3x^2 - 2$$
,  $x_0 = -2$ , limit  $L = 10$ ,  $\varepsilon = 0.1$ 

9. Find 
$$\lim_{x \to 1^{-}} \frac{\sqrt{x^2 + 3x - 2} - \sqrt{2}}{1 - x}$$

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SJ Ball

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