202 MATH

EXERCISES

Chapter 9:- Parametric equations and polar coordinates

9.1 Parametric equations:-

1, 3, 5, 8, 10, 12, 15, 18, 21, 27

9.2 Arc length and surface area:-

3, 5, 6, 7, 10, 12, 15, 22, 24, 31, 33, 36, 37

9.3 Polar coordinates:-

2, 8, 9, 12, 13, 16, 18, 20, 30, 33, 35, 39, 41, 43, 45, 48, 53, 55, 62, 63, 65

9.4 Integrals in polar coordinates:-

1, 5, 6, 21, 25, 26, 27, 29

Chapter 10:- Vectors and surfaces

10.1 Vectors in two dimensions:-

3, 6, 11, 22, 25, 28, 29, 32, 33, 43

10.2 Vectors in three dimensions:-

3, 6, 9, 14, 16, 17, 20, 24, 26, 27,28, 30

10.3 The dot product:-

5, 8, 13, 16, 18, 23, 43  52

10.4 The vector product:-

6, 9, 12, 14, 17, 20, 21, 23, 25, 27, 32  37

10.5 Lines and planes:-

4, 8, 10, 13, 16, 17, 19, 23, 25, 28, 29, 33, 35, 4, 45, 49, 51, 53, 55, 57, 59