Quiz -3, MAT 120 (Calculus I), Fall 2020, Section -4, Date: 07/01/2021

Name: Student ID:

Marks: 15 Time: 25 min

1. Sketch the region whose area is represented by the definite integral, and evaluate the integral using (i) an appropriate formula from geometry and (ii) by integration.

(i)
$$\int_{1}^{4} 2 dx$$
 (ii) $\int_{-1}^{3} (x+2) dx$

2. Find the area of the circle of radius r = a by integration.