- 2. (6 points) Write a parametrization for each of the following curves in the xy-plane.
- (a) The circle of radius 2, centered at the origin, traced clockwise, and starting from (-2,0) when t=0.

(b) The line passing through the points (2, -1) and (1, 3).

- **3.** (5 points)
- (a) Briefly explain the difference between the indefinite integral  $\int f(x) dx$  and the (proper) definite integral  $\int_a^b f(x) dx$ .

(b) What is a Riemann sum and how is it related to one or more of the integrals in part (a)?