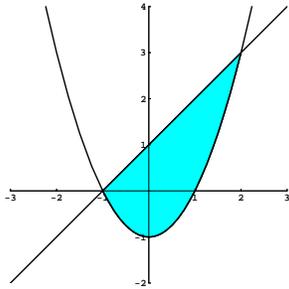


# The Definite Integral

1. The definite integral is *defined* to be

- (a) a limit of Riemann sums.
- (b) the difference in the evaluation of an antiderivative at the endpoints of the interval.
- (c) a signed area.
- (d) all of the above.

2. Write an integral or a sum and/or difference of integrals that gives the area enclosed by the graphs of  $y = x^2 - 1$  and  $y = x + 1$ .



3. Find the area of the following region.

