Steps to evaluate an integral

- 1. Simplify the integrand
- 2. Does substitution work?
- 3. Does integration by parts work? (Is it a product?)
- 4. classify the integrand:
 - (a) Trigonometric function
 - (b) Rational function
 - (c) Contains radicals (does trigonometric substitution work?)
- 5. Everything fails? Take a second look!