YES

 =

YES

NO

**Use a substitution to make things easier**

**(remember to find dx and replace so the integral is in respect to u)**

YES

**Then use one!**

NO

**Use partial fractions to**

**simplify the integral**

YES

**Is it in the form or other fraction?**

NO

**Is it in the form?**

 **or**

NO

**Is it made up from two (parametric) equations?**

NO

YES

**e.g. 5e7x+2 , sin(3x-1) , or (4x+3)1/2**

**Use standard integral functions**

**and adjust for constants**

**Is the function of a standard form?**

**Use integration by parts**

**to simplify the integral**

**Can you use a trig identity to create something more familiar?**

**Use the Separation of variables technique**

NO

YES

**Is the integral a product of 2 functions?**

**How do I integrate that!?**