**Standard integral formula**

1. =+c,
2. =+c,
3. =+c ,

**Type-4**

**Procedure**

**Example:** Workout

Solution: =

= =

**Example:** Workout

Solution: =

= =

**Type-5**

**Procedure**

**Example:** Workout

Solution: =

=+

=+=lnz++C

**FORMULA**

1. ln(secx)+c
2. ln(sinx)+c
3. ln (secx+tan x)+c
4. ln tan(x/2 )+c
5. =ln(x+ +c, x=atan,
6.  =ln(x+)+c , x=asec,
7. =+c x=asin,

 x=atan dx=d

==ln(sec+tan)+c= ln(x+)+c

**Type**6 

**Procedure :**

**Example:** Workout 

Solution: ==

==ln+c

**Example:** Workout 

Solution: =

=

==sin+C

**Type-7** 

**Procedure s**ubstitute

**Example:** Workout 

Solution: put , dx=2zdz

==2 =2ln(z+)+c

=2ln()+c

=2ln( )+c

**Type-8**

**Procedure**

**Example:** Workout 

Solution: I ==

=+

,

 put z=

= = = 

==

==ln

**Type**-9

Process

**Example:** Workout

Solution: =

**Type- 10**

**Procedure**  Substitute

**Example:** Workout 

Solution put dx=2zdz

===+c=+c

**Type11**

**Procedure**  Substitute 

**Example:** Workout

Solution:

put 1+x, , dx

====

=

= =

=+c

**Type12**  ,

**Procedure**  Substitute ,

**Example:** Workout

Solution:

put ,

**Example:** Workout

Solution:

put ,