**Example :** Find the area common to the circles  and

Sol

A

C

O

B

x

. -----(1) -----(2)

Solving (1) and (2)

sq unit

**Example :** Find the area common to the circle  and parabola

C(0,1)

Sol

A(1,0)

B(-1,0)

O

x

D(0,-1)

.  -----(1 -----(2)

Solving (1) and (2)

The parabola intersect the circle at

and circle intersect the x-axis at

sqr. unit

sq unit