function **X**=f(**x**),

z=3\*(1-**x**)^2,

**X**=**x**\*z

endfunction

a=0;

b=1;

EX=intg(a,b,f);

function **Y**=c(**y**),

z=3\*(1-**y**)^2,

**Y**=**y**\*z

endfunction

EY=intg(a,b,c);

disp(EX, "i)Mean of X =");

disp(EX, "Mean of Y =");

function **X**=g(**x**),

z=3\*(1-**x**)^2,

**X**=**x**^2\*z

endfunction

a=0;

b=1;

EX2=intg(a,b,g);

function **Y**=h(**y**),

z=3\*(1-**y**)^2,

**Y**=**y**^2\*z

endfunction

EY2= intg(a,b,h);

vX2=EX2-(EX)^2;

vY2=EY2-(EY)^2;

disp(vX2, "ii) Variance of X");

disp(vY2, "variance of Y");