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//program for secan't method
#include<iostream>                          //for cout & cin
#include<math.h>                        //for trigonometric functions if any
using namespace std;
#define f(x) ( x*x*x-x-11 )                 //input function
void ab(double *a,double *b,double x)       //for finding interval
{     while(1)
      {     if(f(x)<0)
            {     while(f(x)<0.0)
                        x++;
                  *b=x--;
                  *a=x;
                  break;
            }
            else
            {     while(f(x)>0.0)
                        x++;
                  *b=x--;
                  *a=x;
                  break;
            }
      }
      cout<<"\n A="<<*a<<" B="<<*b;
}
void root(double *a,double *b,double x)     //for finding root
{     double k;
      for(int i=0;i<15;i++)
      {     k=x;
            x=(*b-(f(*b)*(*b-*a)/(f(*b)-f(*a))));
            *a=*b;
            *b=x;
            if(k==x)
                  break;
```

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            cout<<"\n X"<<i+1<<" = "<<x;
      }
}
int main()
{     double a,b,x=0.0;
      ab(&a,&b,x);
      root(&a,&b,x);
      return 0;
}
```