

(W1)

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```
import java.util.*;
public class W1
{
    int fac(int n)
    {
        int i = fac = 1;
        for (i = 1; i <= n; i++)
            fac = fac * i;
        return fac;
    }
    public static void main (String args[])
    {
        float x, a, sum = 0;
        int i, j, limit;

        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the value of x");
        x = sc.nextInt();
        System.out.println ("How many terms do you want?");
        limit = sc.nextInt();

        a = x;
        x = x * (3.14/180);
        for (i = 1; j = 1; i <= limit; i++, j = j + 2)
        {
            if (i % 2 != 0)
            {
                sum = sum + Math.pow (x, j) / fac (j);
            }
        }
    }
}
```

else

sum = sum - Math.pow(x, j) / fac(i);

}

System.out.println("Sin (" + x + ") = " + sum);

}

}

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