```java
/** File Name: MathFunctions.java
 *
 * This demos the math functions that are a part of APCS A.
 *
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 */

import java.lang.Math;

public class MathFunctions
{
   public static void main(String[] args)
   {
      int a;
      double x;

      // Setting a to a random integer from [-25,-1] and x to a random number
      // from (-100,0].
      a = -1*(int)(Math.random()*25+1);
      x = -1*Math.random()*100;
      System.out.println("|" + a + "| = " + Math.abs(a));
      System.out.println("|" + x + "| = " + Math.abs(x));

      a = (int)(Math.random()*5+1);
      x = Math.random()*12;
      System.out.println(a + "^3 = " + Math.pow(a,3));
      System.out.println(x + "^2 = " + Math.pow(x,2));

      a = (int)(Math.random()*100+1);
      x = Math.random()*120;
      System.out.println("sqrt(" + a + ") = " + Math.sqrt(a));
      System.out.println("sqrt(" + x + ") = " + Math.sqrt(x));
   }
}
```