Class Monom

Constructors

Constructor and Description
`Monom(double a, int b)` This function is the constructor it's get a as a coefficient and b as a power.
`Monom(Monom ot)` This function is constructor to deep copy the values of one Monom to another.
`Monom(java.lang.String s)` This function get a string and makes it Monom object;

Constructor Summary

Modifier and Type	Method and Description
`boolean`	`add(Monom a)` This function add to this Monom another Monom only if the values of power is equal.
`Monom`	`derivative()` This function is take the coefficient and multiply by the power and substract the power with -1.
`double`	`f(double x)` This function is gets value x and returns the f(x)= a*x^b.
`double`	`get_coefficient()`
`int`	`get_power()`
`void`	`multi(Monom a)` This function is multiply this Monom with another by multiply the coefficients and the powers
`java.lang.String`	`toString()` This function print the Monom as a string

Methods inherited from class java.lang.Object

`equals, getClass, hashCode, notify, notifyAll, wait, wait, wait`

Class Polynom

Constructors

Constructor and Description
`Polynom()` a constructor for building an array to store the Monoms;
`Polynom(java.lang.String s)`

Method Summary

Modifier and Type	Method and Description
`void`	`add(Monom m1)` This function is to add a single Monom to array list;
`void`	`add(myMath.Polynom_able p1)` This function is adding two polynoms by runnig all over the array list and add between two with add Monom function
`double`	`area(double x0, double x1, double eps)` This function is compute the area above the axis x of this polynom at range of xo,x1 and step of eps.
`double`	`AreaUnderAxisX(double x0, double x1, double eps)`
`myMath.Polynom_able`	`copy()` This function is a deep copy of this polynom;
`myMath.Polynom_able`	`derivative()` This function is to derivative this polynom;
`void`	`DrawPolynom()`
`boolean`	`equals(myMath.Polynom_able p1)` This function is to check if two polynoms are equals by running over two polynoms and check if the Monoms are equals
`double`	`f(double x)` This function is gets value x and returns the f(x)= a*x^b over all Monom at the array list and sum them;

boolean	isZero() This function is to check if the polynom is zero by running over polynom and check if the coefficient at the Monoms are 0;
java.util.Iterator<Monom>	iteretor() This function is to create an iterator over this polynom.
void	multiply(myMath.Polynom_able p1) This function is to multiply between two polynoms by running over this polynom and multiply between the Monom at this polynom and p1 Monom
double	root(double x0, double x1, double eps) This function is to find the cut of the polynom with axis x between the rang of x0 ,x1 and precision of eps .
int	size()
void	substract(myMath.Polynom_able p1) This function is subtract between to polynom by multiply the given polynom p1 by -1 and use the add polynom function to subtract;
java.lang.String	toString() This function print the polynom as a string

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait