Method: testToString()			
Test #	Testing Class	Description	
1	Number	positive double value	
2	Number	negative double value	
3	Variable	since there is no input for constructor> should always return "x"	
4	Polynomial	new Polynomial using a Number instance as the base	
5	Polynomial	new Polynomial using a Variable instance as the base	
6	Log	new Log using a Polynomial that has a Variable	
7	Log	new Log using a Polynomial with Numbers	
8	Log	new log with just a Number	
9	Exp	Exp with Log with Polynomial with Variable	
10	Exp	Exp with Polynomial	
11	Exp	Exp with Number	
12	Sin	Sin with Exp with Log with Polynomial with Variable and Number	
13	Sin	Sin with Polynomial with Variable and Number	
14	Sin	Sin with Number	
15	Sin	Sin with Log and Polynomial with Variable and Number	
16	Cos	Cos with Sin and Exp and Log and Polynomial with Variable and Number	
17	Cos	Cos with Exp and Log with Polynomial with Variable and Number	
18	Cos	Cos with Polynomial with Variable and Number	
19	Cos	Cos with Number	
20	Cos	Cos with Log and Polynomial with Variable and Number	
21	BinaryOp	BinaryOp with Variable and Log function with Number	
22	BinaryOp	Binary Op with Cos of Number and Sin of Polynomial with Variable	
		BinaryOp with left and right operand as BinaryOps (right operand not in () bc it	
23	BinaryOp	has the same operator)	
		BinaryOp with left and right operand as (right operand is in () bc it does not	
24	BinaryOp	have the same operator)	
		Binary Op with right operand as BinaryOp (right operand not in () bc it has the	
25	BinaryOp	same operator)	
		Binary Op with right operand as BinaryOp (right operand is in () bc does not	
26	BinaryOp	have the same operator)	
Method: testEquals			

Test #	Testing Class	Description			
	Number	Compares to a Number with a different parameter			
	Number	Compares to a Number with the same parameter			
29	Number	Compares Number to a Polynomial			
30	Variable	Compares a Variable to a Variable			
31	Variable	Compares a Variable to a Number			
32	Polynomial	Compares a Polynomial to a Polynomial with the same power and operand			
33	Polynomial	Compares a Polynomial to a Polynomial with the operand			
34	Polynomial	Compares a Polynomial to a Polynomial with the same power			
35	Polynomial	Compares a Polynomial to an Exp			
36	Log	Compares a Log to a Log with the same operand			
37	Log	Compares a Log to a Log with different operand			
38	Log	Compares a Log to an Exp			
39	Exp	Compares an Exp to an Exp with the same operand			
40	Ехр	Compares an Exp to an Exp with different operand			
41	Ехр	Copmares an Exp to a Number			
42	Sin	Compares a Sin to a Sin with the same operand			
43	Sin	Compares a Sin to a Sin with a different operand			
44	Sin	Compares a Sin to a Cos			
45	Cos	Compares a Cos to a Cos with the same operand			
46	Cos	Compares a Cos to a Cos with different operand			
47	Cos	Compares a Cos to an Exp			
48	BinaryOp	Compares a BinaryOp to a BinaryOp with the same operands and operator			
49	BinaryOp	Compares a BinaryOp to a BinaryOp with different left operands			
50	BinaryOp	Compares a BinaryOp to a BinaryOp with different right operands			
51	BinaryOp	Compares a BinaryOp to a BinaryOp with different operator			
52	BinaryOp	Compares a BinaryOp to a Cos that has the first BinaryOp as its parameter			
Method: testGetOperand()					
•	Testing Class	Description			
	Polynomial	Polynomial with Variable operand			
	Polynomial	Polynomial with Number operand			
	Polynomial	Polynomial with Cos operand			
	Polynomial	Polynomial with BinaryOp operand			

	•	Polynomial with Sin operand	
	Polynomial	Polynomial with Variable operand	
	Polynomial	, , ,	
	Polynomial	Polynomial with Log operand	
	Polynomial	Polynomial with Polynomial operand	
62	Log	Log with Variable operand	
63	Log	Log with Number operand	
64	Log	Log with Cos operand	
65	Log	Log with BinaryOp operand	
66	Log	Log with Sin operand	
67	Log	Log with Variable operand	
68	Log	Log with Exp operand	
69	Log	Log with Log operand	
70	Log	Log with Polynomial operand	
71	Exp	Exp with Variable operand	
72	Exp	Exp with Number operand	
73	Exp	Exp with Cos operand	
74	Exp	Exp with Sin operand	
75	Exp	Exp with Variable operand	
76	Exp	Exp with Exp operand	
77	Exp	Exp with Log operand	
78	Exp	Exp with Polynomial operand	
79	Exp	Exp with BinaryOp operand	
80	Sin	Sin with Variable operand	
81	Sin	Sin with Number operand	
82	Sin	Sin with Cos operand	
83	Sin	Sin with Sin operand	
84	Sin	Sin with Variable operand	
85	Sin	Sin with Exp operand	
86	Sin	Sin with Log operand	
87	Sin	Sin with Polynomial operand	
88	Sin	Sin with BinaryOp operand	
89	Cos	Cos with Variable operand	
90	Cos	Cos with Number operand	

91	Cos	Cos with Cos operand	
92	Cos	Cos with Sin operand	
93	Cos	Cos with Variable operand	
94	Cos	Cos with Exp operand	
95	Cos	Cos with Log operand	
96	Cos	Cos with Polynomial operand	
97	Cos	Cos with BinaryOp operand	
Method: testGetVal()			
Test #	Testing Class	Description	
98	Number	Number with positive single digit decimal	
99	Number	Number with negative single digit decimal	
		Number with positive multiple digit decimal	
100	Number	Number with positive multiple digit decimal	
	Number Number	Number with positive multiple digit decimal Number with negative multiple digit decimal	
101			

Method: testGetLeftOperand()		
Test #	Testing Class	Description
104	BinaryOp	BinaryOp with a left operand of type Number
105	BinaryOp	BinaryOp with a left operand of type Cos
106	BinaryOp	BinaryOp with a left operand of type Sin
107	BinaryOp	BinaryOp with a left operand of type Variable
108	BinaryOp	BinaryOp with a left operand of type Polynomial
109	BinaryOp	BinaryOp with a left operand of type Exp
110	BinaryOp	BinaryOp with a left operand of type Log
111	BinaryOp	BinaryOp with a left operand of type BinaryOp
Method: testGetRightOperator()		
Test #	Testing Class	Description
112	BinaryOp	BinaryOp with a right operand of type Number
113	BinaryOp	BinaryOp with a right operand of type Cos
114	BinaryOp	BinaryOp with a right operand of type Sin
115	BinaryOp	BinaryOp with a right operand of type Variable
116	BinaryOp	BinaryOp with a right operand of type Polynomial
117	BinaryOp	BinaryOp with a right operand of type Exp
118	BinaryOp	BinaryOp with a right operand of type Log
119	BinaryOp	BinaryOp with a right operand of type BinaryOp
Method: testGetOperator()		
Test #	Testing Class	·
	BinaryOp	BinaryOp with an operator of DIV (/)
	BinaryOp	BinaryOp with an operator of MULT (*)
	BinaryOp	BinaryOp with an operator of PLUS (+)
123	BinaryOp	BinaryOp with an operator of SUB (-)
Method: testGetPower()		
Test #	Testing Class	Description
	Polynomial	Number with positive single digit decimal
	Polynomial	Number with negative single digit decimal
12.	, i diyildililar	Trainiber with hegative single digit decillar

126	Dolynomial	Number with positive multiple digit desimal
	Polynomial	Number with positive multiple digit decimal
	Polynomial	Number with negative multiple digit decimal
	Polynomial	Number with zeros
129	Polynomial	Number with positive multiple digit decimal less than 1
Method: testDerivative()		
Test #	Testing Class	Description
130	Number	Derivative of Number with positive single digit decimal
131	Number	Derivative of Number with negative single digit decimal
132	Number	Derivative of Number with positive multiple digit decimal
133	Number	Derivative of Number with negative multiple digit decimal
134	Number	Derivative of Number with zeros
135	Number	Derivative of Number with positive multiple digit decimal less than 1
136	Polynomial	Derivative of Polynomial with positive single digit decimal
137	Polynomial	Derivative of Polynomial with negative single digit decimal
138	Polynomial	Derivative of Polynomial with positive multiple digit decimal
139	Polynomial	Derivative of Polynomial with negative multiple digit decimal
140	Polynomial	Derivative of Polynomial with zeros
141	Polynomial	Derivative of Polynomial with positive multiple digit decimal less than 1
142	Variable	Derivative of Variable
143	Log	Derivative of Log with Number as an operand
144	Log	Derivative of Log with Cos as an operand
145	Log	Derivative of Log with Sin as an operand
146	Log	Derivative of Log with Variable as an operand
147	Log	Derivative of Log with Polynomial as an operand
148	Log	Derivative of Log with Exp as an operand
149	Log	Derivative of Log with Log as an operand
150	Log	Derivative of Log with BinaryOp as an operand
151	Exp	Derivative of Exp with Number as an operand
152	Exp	Derivative of Exp with Cos as an operand
153	Exp	Derivative of Exp with Sin as an operand
154	Exp	Derivative of Exp with Variable as an operand
155	Exp	Derivative of Exp with Polynomial as an operand

156		Derivative of Exp with Exp as an operand
157	Exp	Derivative of Exp with Log as an operand
158	Exp	Derivative of Exp with BinaryOp as an operand
159	Sin	Derivative of Sin with Number as an operand
160	Sin	Derivative of Sin with Cos as an operand
161	Sin	Derivative of Sin with Sin as an operand
162	Sin	Derivative of Sin with Variable as an operand
163	Sin	Derivative of Sin with Polynomial as an operand
164	Sin	Derivative of Sin with Exp as an operand
165	Sin	Derivative of Sin with Log as an operand
166	Sin	Derivative of Sin with BinaryOp as an operand
167	Cos	Derivative of Cos with Number as an operand
168	Cos	Derivative of Cos with Cos as an operand
169	Cos	Derivative of Cos with Sin as an operand
170	Cos	Derivative of Cos with Variable as an operand
171	Cos	Derivative of Cos with Polynomial as an operand
172	Cos	Derivative of Cos with Exp as an operand
173	Cos	Derivative of Cos with Log as an operand
174	Cos	Derivative of Cos with BinaryOp as an operand
175	BinaryOp	Derivative of BinaryOp with Number as an operand
176	BinaryOp	Derivative of BinaryOp with Cos as an operand
177	BinaryOp	Derivative of BinaryOp with Sin as an operand
178	BinaryOp	Derivative of BinaryOp with Variable as an operand
179	BinaryOp	Derivative of BinaryOp with Polynomial as an operand
180	BinaryOp	Derivative of BinaryOp with Exp as an operand
181	BinaryOp	Derivative of BinaryOp with Log as an operand
182	BinaryOp	Derivative of BinaryOp with BinaryOp as an operand

Method: testValue()		
Test #	Testing Class	Description
183	Number	Value of a positive Number
184	Number	Value of a negative Number
185	Variable	Value of a Variable
186	Polynomial	Value of a Polynomial that has a Power less than 1
187	Polynomial	Value of a Polynomial that has a Power greater than 1
		Value of a Polynomial with a Variable (Should throw an
188	Polynomial	UnsupportedOperationException error)
189	Log	Value of a Log that has a small operand
190	Log	Value of a Log that has a larger operand
		Value of a Log with a Variable (Should throw an
191	Log	UnsupportedOperationException error)
		Value of a Log with a negative Number (Should return a NaN
192	Log	value)
193	Exp	Value of an Exp that has an operand of a negative Number
194	Exp	Value of an Exp that has an operand of a positive Number
195	Exp	Value of an Exp that has an operand of zero
		Value of an Exp with a Variable (Should throw an
196	Exp	UnsupportedOperationException error)
197	Sin	Value of Sin that has a negative operand
198	Sin	Value of Sin that has a positive operand
199	Sin	Value of Sin that has an operand of zero
200	Sin	Value of Sin that has a Polynomial operand
		Value of Sin with a Variable (Should throw an
201	Sin	UnsupportedOperationException error)
202	Cos	Value of Cos that has a negative operand
203	Cos	Value of Cos that has a positive operand
204	Cos	Value of Cos that has an operand of zero
205	Cos	Value of Cos that has a Polynomial operand
		Value of Cos with a Variable (Should throw an
206	Cos	UnsupportedOperationException error)
207	BinaryOp	Value of BinaryOp that has Number operands
208	BinaryOp	Value of BinaryOp that has Polynomial operands

209 BinaryOp Value of BinaryOp that has Log operands 210 BinaryOp Value of BinaryOp that has Exp operands 211 BinaryOp Value of BinaryOp that has Sin operands 212 BinaryOp Value of BinaryOp that has Cos operands 213 BinaryOp Value of BinaryOp that has Polynomial and Number of Value of BinaryOp that has Exp and Log operands 214 BinaryOp Value of BinaryOp with a Variable when added (Should be added to the particular force of the particu	
211 BinaryOp Value of BinaryOp that has Sin operands 212 BinaryOp Value of BinaryOp that has Cos operands 213 BinaryOp Value of BinaryOp that has Polynomial and Number of Value of BinaryOp that has Exp and Log operands Value of BinaryOp with a Variable when added (Shou	
212 BinaryOp Value of BinaryOp that has Cos operands 213 BinaryOp Value of BinaryOp that has Polynomial and Number of State of BinaryOp that has Exp and Log operands Value of BinaryOp with a Variable when added (Shou	
213 BinaryOp Value of BinaryOp that has Polynomial and Number of BinaryOp that has Exp and Log operands Value of BinaryOp with a Variable when added (Shou	
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245 Binamon and Harrison and Accounting Free attention A	ld throw
215 BinaryOp an UnsupportedOperationException error)	
Value of BinaryOp with a Variable when subtracted (Should
216 BinaryOp throw an UnsupportedOperationException error)	
Value of BinaryOp with a Variable when multiplied (S	hould
217 BinaryOp throw an UnsupportedOperationException error)	
Value of BinaryOp with a Variable when divided (Sho	uld throw
218 BinaryOp an UnsupportedOperationException error)	
Method: testValueWithInputs()	
Test # Testing Class Description	
219 Number Value of Number with Variable substitution	
220 Variable Value of Variable with Variable substitution	
221 Polynomial Value of Polynomial with Variable substitution	
222 Log Value of Log with Variable substitution	
223 Log Value of Log with Variable substitution	
223 Log Value of Log with Variable substitution 224 Exp Value of Exp with Variable substitution	
· · · · · · · · · · · · · · · · · · ·	
224 Exp Value of Exp with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution 226 Sin Value of Sin with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution 226 Sin Value of Sin with Variable substitution 227 Sin Value of Sin with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution 226 Sin Value of Sin with Variable substitution 227 Sin Value of Sin with Variable substitution 228 Cos Value of Cos with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution 226 Sin Value of Sin with Variable substitution 227 Sin Value of Sin with Variable substitution 228 Cos Value of Cos with Variable substitution 229 Cos Value of Cos with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution 226 Sin Value of Sin with Variable substitution 227 Sin Value of Sin with Variable substitution 228 Cos Value of Cos with Variable substitution 229 Cos Value of Cos with Variable substitution 230 BinaryOp Value of BinaryOp with Variable substitution	
224 Exp Value of Exp with Variable substitution 225 Exp Value of Exp with Variable substitution 226 Sin Value of Sin with Variable substitution 227 Sin Value of Sin with Variable substitution 228 Cos Value of Cos with Variable substitution 229 Cos Value of Cos with Variable substitution 230 BinaryOp Value of BinaryOp with Variable substitution 231 BinaryOp Value of BinaryOp with Variable substitution	

235	BinaryOp	Value of BinaryOp with Variable substitution
236	BinaryOp	Value of BinaryOp with Variable substitution
237	BinaryOp	Value of BinaryOp with Variable substitution