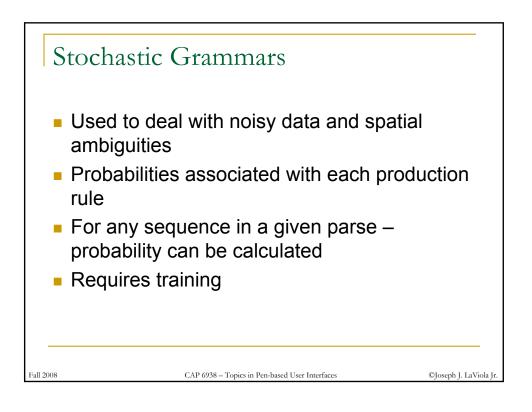
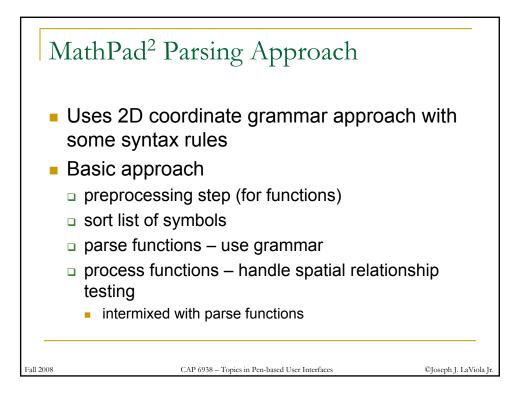


Procedura	ally Coded Syntax Ru	les
<ul> <li>similar to r</li> </ul>	ns about domain coded progra rule based approach for recognition e for horizontal line	
A length threshold short or long b	d of 20 pixels is used to classify a horiz ar.	ontal line as a
If it is a long bar a division.	and has symbols above and below, it is	treated as a
	mbols above, it is treated as a boolean no symbols above or below, it is treate	
If it has symbols a ≤, and ≥ are fo	above or below, the combination symbo rmed.	ols such as =,
)8	CAP 6938 – Topics in Pen-based User Interfaces	©Joseph J. LaV





<math_formula></math_formula>	::= <equation>   <expression></expression></equation>
<equation></equation>	::= <expression> <relational_op> <expression>  </expression></relational_op></expression>
	<pre><expression> ''='' <cond_expression></cond_expression></expression></pre>
<relational_op></relational_op>	::= ``=``   ```=``   ``<``   ```>``   ``<=``   ``>=``
<cond_expression></cond_expression>	::= ''{'' <cond_statement></cond_statement>
<cond_statement></cond_statement>	::= ''if'' <expression> '':'' <logic_expression></logic_expression></expression>
	{``elseif`` <expression> ``:`` <logic_expression> }</logic_expression></expression>
	<pre><expression> '': else''</expression></pre>
<logic_expression></logic_expression>	::= <equation> <logical_op> <logic_expression>   <equation></equation></logic_expression></logical_op></equation>
<logic_op></logic_op>	::= ''and''   ''or''
<expression></expression>	::= <term> ''+'' <expression>  </expression></term>
·	<term> ('-'' <expression>  </expression></term>
	<term> ('^') <expression>  </expression></term>
	<term></term>
<term></term>	::= <factor> ''*'' <term></term></factor>
	((( <expression> ( )) / (</expression>
	<factor></factor>
<factor></factor>	::= <sub_expression> ''/'' <factor>  </factor></sub_expression>
	<sub_expression></sub_expression>
<sub_expression></sub_expression>	::= <integral>   <derivative>   <summation>  </summation></derivative></integral>
-	<function>   <terminal></terminal></function>

<integral></integral>	::= ''int('' <expression> '','' <variable> '')''  </variable></expression>
	<pre>''int('' <expression> '','' <variable> '',''</variable></expression></pre>
	<pre><expression> '','' <expression> '')'' </expression></expression></pre>
<derivative></derivative>	<pre>::= ''diff('' <expression> '','' <variable> '')''  </variable></expression></pre>
	<pre><integer> (')''</integer></pre>
<summation></summation>	::= ''sum('' <expression> '')''  </expression>
	<pre>''sum('' <expression> '','' <expression> '',''</expression></expression></pre>
	<expression> (')''</expression>
<function></function>	::= <func_name> ''('' <expression> '')''</expression></func_name>
<func_name></func_name>	::= ''sqrt''   ''abs''   ''log''   ''exp''
	''sin''   ''cos''   ''tan''   ''asin''
	('acos')   ('atan')
<terminal></terminal>	
<variable></variable>	::= <letter>  </letter>
	<letter> ('_'' {<integer>} {<letter>} {<integer>}</integer></letter></integer></letter>
<number></number>	::= <integer>  </integer>
<integer></integer>	<pre><integer> ``.'' <unsigned_int> ::= <sign> <unsigned_int>   <unsigned_int></unsigned_int></unsigned_int></sign></unsigned_int></integer></pre>
<unsigned_int></unsigned_int>	
<sign></sign>	::= (+, )   (-)
0	::= [0-9]
<letter></letter>	

