Rational Function Model

Recall the	format:		
where	is	LC is	
degre	e () is	
	function : =		
examples:			
Domain of a Ration	al Function		
All numbers	EXCEPT those that	the	to be
Vertical Asymptote	(s) of a Rational Function		
Occur when an	is NOT in	AND there is NO	
betwe	een and _	·	

Scenario #1

Horizontal Asymptote of a Rational Function

Compare the	between	and	d

Scenario #3

Scenario #2

On exam, you will NOT be asked to _____ a ____ function, however expect to be asked to _____ its ____ :

- ♦ determine if _____
- ♦ find _____
- ♦ locate any ______ or _____
- ♦ determine if a _____ asymptote _____

		110001001000	2000010 ((0111011000	•	
ex.	Determ	ine the components of	·		
	symme	etry:			
	y-intere	cept:			
	x-intero	cept(s):			
	vertical	l asymptote(s):			
	horizor	ntal asymptote:			

	111120 11000100100	
ex	. Determine the components of	·
	symmetry:	
	y-intercept:	
	<i>x</i> -intercept(s):	
	vertical asymptote(s):	
	horizontal asymptote:	

x. Determine the components of	_·
1 st factor:	
y-intercept:	
x-intercept(s):	
vertical asymptote(s):	
horizontal asymptote:	

Sketching a Rational Function with a Hole

ex. Sketch _____

Rational Function with a Slant Asymptote

ex. Determine the components of ______.

y-intercept:

symmetry:

x-intercept(s):

vertical asymptote(s):

horizontal asymptote: