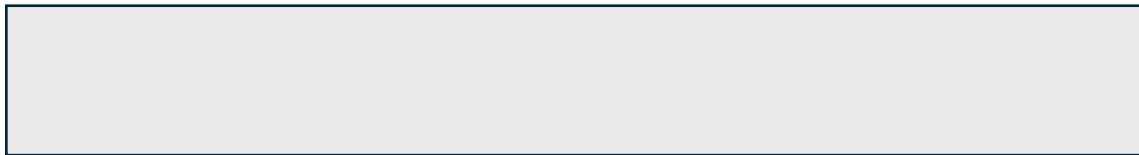


Rational Function Model

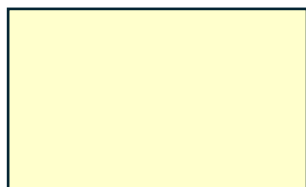
Recall the _____ format:



where _____ is _____ LC is _____

degree (_____) is _____

_____ function : =



examples:

Domain of a Rational 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 _____
between _____ and _____.

Horizontal Asymptote of a Rational Function

Compare the _____ between _____ and _____.

Scenario #1

Scenario #2

Scenario #3

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 _____

ex. Determine the components of _____.

symmetry:

y -intercept:

x -intercept(s):

vertical asymptote(s):

horizontal asymptote:

ex. Determine the components of _____.

symmetry:

y -intercept:

x -intercept(s):

vertical asymptote(s):

horizontal asymptote:

ex. Determine the components of _____.

1st 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 _____.

symmetry:

y-intercept:

x-intercept(s):

vertical asymptote(s):

horizontal asymptote: