MA 109: October 17

Rational Functions: End Behavior

Start of Class

Instructor Information

Name:

Email:

Office Hours:

Warm-up Questions

Notes

End Behavior of Rational Functions: Same 3 Steps

Step 1:

Step 2:

Step 3:

Three Cases for Step 3:

Example: Determine the end behavior of the function $f(x) = \frac{3x^4 + x^2 - 3x + 7}{5x^7 - x^3 + 9x - 1}$. If it has a horizontal asymptote, write its equation.

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Example: Determine the end behavior of the function $f(x) = \frac{3x^4 + x^2 - 3x + 7}{-x^3 + 9x - 1}$. If it has a horizontal asymptote, write its equation.

End of Class

Write a summary of what you learned today:

What questions do you have about the material from today?

What do you need to do between now and the next class meeting?