

TASK 5.3.7: REFLECT AND APPLY: CREATE A LESSON

Solutions

This activity was designed to expand your understanding of rational functions as a teacher. Create a similar student lesson that will bring out the same concepts at a level appropriate to a high school Algebra II class. Be prepared to discuss how and why you chose to develop each concept in the way that you did.

Look for lessons that clearly teach the mathematics of rational functions:

- *What are vertical asymptotes and what causes them to occur in the graph of a rational function?*
- *What are removable discontinuities and what causes them to occur in the graph of a rational function?*
- *What are horizontal asymptotes and what causes them to occur in the graph of a rational function?*
- *What are oblique asymptotes and what causes them to occur in the graph of a rational function?*

Look for activities that will give students the opportunity to construct meaning for themselves.

Look for activities that will result in student interaction, such as projects, cooperative learning, pairs, etc.

Look for lessons that incorporate technology.

Look for assessments that will clearly reveal student understanding, not just assess skills. For example, rather than ask them to find the asymptotes of a function, give them a description of the asymptotes and ask them to synthesize a function that exhibits this behavior.

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