MATH 5 SM

RATIONA FUNCTION

Pre-tent

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A Given
$$f(x) = \frac{3X-1}{2X-4}$$
 and $g(x) = \frac{-4}{X+5} + 1$

- a) graph
- b) perform a complete study
- c) derive their inverses (f=1(x) and g=1(x))
- d) statch their inverses
- e) convert general to standar for (fix); convert standard to gerul form (g(v))
- Solve X+1 <2

$$m(x) = \frac{X+1}{5x-3}$$

a)
$$\frac{h(x)}{K(x)} =$$

(2,3), find the role.

(E)

Example 4.1.5. The number of students N at local college who have had the flu t months after the semester begins can be modeled by the formula $N(t) = 500 - \frac{450}{1+3t}$

- 1. Find and interpret N(0). Skept N(E).
- 2. How long will it take until 300 students will have had the flu?
- 3. Determine the behavior of N as $t \to \infty$. Interpret this result graphically and within the context of the problem.