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## Math 120 C, E Quiz 4

## Quiz 4 November 4, 2004

Show all work for full credit.

1. (5 points) Find the linear-to-linear rational function f(x) whose graph has y = -3 as its horizontal asymptote, x = 5 as its vertical asymptote, and which passes through the point (0, 2).

2. (5 points) Give the zeros and asymptotes of the function

$$g(x) = \frac{(3x+3)(2x-1)}{2x^2 - 9x - 5}$$