## Math 120 C, E <br> 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

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

