New Assignment 8: Asymptotes

November 12, 2013

1) Describe the horizontal asymptotes of the following rational functions; be sure to show complete work. (a) $f(x) = \frac{3x-1}{2-5x}$ (b) $h(x) = \frac{x+7}{x^2-6x+8}$ (c) $c(x) = \frac{7x^2-3x+2x^3+6}{4x-x^2-2-5x^3}$.

2) Find all vertical asymptotes, horizontal asymptotes, x-intercepts and y-intercepts for a) $f(x) = \frac{3x-1}{2-5x}$ b) $g(x) = \frac{2x}{x+7}$ (c) $h(x) = \frac{x+7}{x^2-6x+8}$.