To find the vertical asymptote :

We must set the denominator equal to 0 and solve: b+1=0

b=-1 There is a vertical asymptote at b=-1 To find the horizontal asymptote :

First we must compare the degrees of the polynomials.

Both the numerator and denominator are 1st degree polynomials.

Both the numerator and denominator are 1° degree polynomials. Since they are the same degree, we must divide the coefficients of the highest terms.

In the numerator, the coefficient of the highest term is 4

In the denominator, the coefficient of the highest term is an understood 1.

