To find the vertical asymptote :

We must set the denominator equal to 0 and solve: b + 2 = 0

b=-2There is a vertical asymptote at b=-2

To find the horizontal asymptote :

First we must compare the degrees of the polynomials.

Both the numerator and denominator are  $\mathtt{1}^{\mathsf{st}}$  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 1 In the denominator, the coefficient of the highest term is an understood  $1.\,$ The horizontal asymptote is at m=1

To find the oblique asymptote : Since the degrees of the numerator and the denominator are the same, this rational does not have an oblique asymptote 2.0

