To find the vertical asymptote: We must set the denominator equal to 0 and solve: h + 1 = 0

h = -1There is a vertical asymptote at h=-1

To find the horizontal asymptote :

The horizontal asymptote is at q=3

-5

-15

-10

First we must compare the degrees of the polynomials.

Both the numerator and denominator are 1<sup>st</sup> 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 3

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

5

10

15