$g^3 - 64 = 0$ q = 4

- 15

-10

To find the vertical asymptote :

There is a vertical asymptote at g=4 To find the horizontal asymptote :

-0.2

First we must compare the degrees of the polynomials. 0.4 0.2

We must set the denominator equal to 0 and solve:

The numerator contains a 2<sup>nd</sup> degree polynomial while the denominator contains a 3<sup>rd</sup> degree polynomial. Since the polynomial in the numerator is a lower degree than the denominator, the horizontal asymptote is located at r=0. To find the oblique asymptote : Since the degrees of the numerator are less than the degrees of the denominator, this rational does not have an oblique asymptote

10