It so happens that this function can be simplified as:

 $e(g) = \frac{-27+g^3}{-9+g^2}$

$$=rac{g^{-}+3}{g+3}$$
To find the vertical asymptote : $g+3=0$

-15

g = -3There is a vertical asymptote at g=-3To find the horizontal asymptote :

denominator contains a 2nd degree polynomial. Since the polynomial in the numerator is a higher degree than the denominator,

To find the oblique asymptote : we must divide the numerator by the denominator $\frac{-27+g^3}{-9+g^2} = \frac{g^2+3}{g+3} = \frac{g}{g+3} + g$

There is an oblique asymptote at k=f g5 10 -10