1.

To find the vertical asymptote :
We must set the denominator equal to 0 and solve:
$u+2=0$
$u=-2$
There is a vertical asymptote at $u=-2$
To find the horizontal asymptote :
First we must compare the degrees of the polynomials.
Both the numerator and denominator are 1^{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 4
In the denominator, the coefficient of the highest term is an understood 1.
The horizontal asymptote is at $t=4$
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