Exercise 1 Calc. : ✓

Exercise 1	Carc. : V
Consider the function $g(x) = \frac{ax - 5}{-3x + 1}$ and its graph G .	
1. What is the domain of function g ?	2 marks
2. Give the equation of the vertical asymptote to G .	2 marks
3. $y = -2$ is an asymptote to G . Determine the value of a .	2 marks
4. What is the range of function g ?	2 marks
5. Find the coordinates of the intersections points of G with the x and y axis.	2 marks
6. Find the intersection points between G and the line $y = x + 1$.	2 marks