

Exercise 1

Calc. : ✓

Consider the function $g(x) = \frac{ax - 5}{-3x + 1}$ and its graph G .

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| 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 |