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| **Topic 2: Functions**  | **Rational Functions** |
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| 1. Let , for . The line is a vertical asymptote to the graph of .
	1. Write down the value of
	2. The graph of has a y-intercept at (0,5). Find the value of
	3. Write down the equation of the horizontal asymptote of the graph of
 | (1 mark)(4 marks)(1 mark) |
| Mark scheme: | (A1) (A1)(M1)(A1) (A1) (A1) Must be  |