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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 | |