WORKSHEET

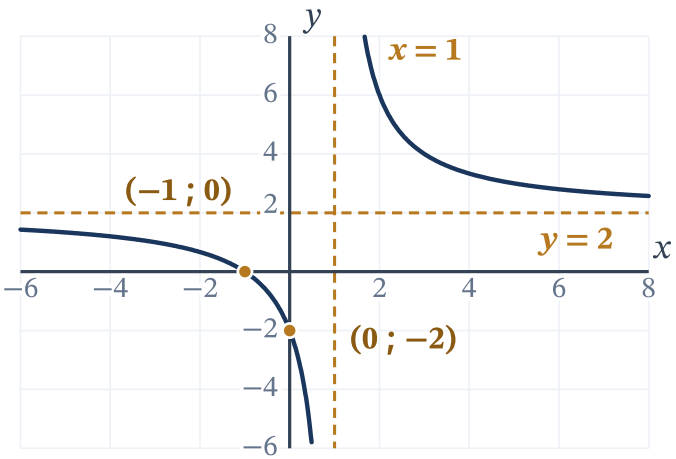
Name: ..... Class: .....

Date: .....

MARK ____ / 23

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Write down the asymptotes of $y = \frac{4}{x-1} + 2$. (2)

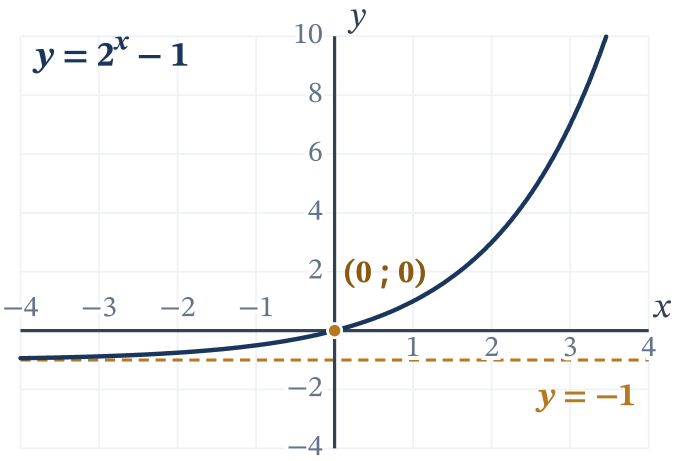


2 Determine the y-intercept of $y = \frac{4}{x-1} + 2$. (2)

3 Determine the x-intercept of $y = \frac{4}{x-1} + 2$. (3)

4 Write down the domain and range of $y = \frac{4}{x-1} + 2$. (2)

5 Write down the equation of the asymptote of $y = 2^x - 1$. (1)



6 Determine the y-intercept of $y = 2^x - 1$. (2)

7 Write down the range of $y = 2^x - 1$. **(1)**

8 Describe the transformation from $y = 2^x$ to $y = 2^x - 1$. **(2)**

9 For $y = 2^{x-3} + 1$, write down the equation of the asymptote and describe the transformation from $y = 2^x$. **(3)**

10 Determine the y-intercept of $y = 4 \cdot 3^{x+1} - 5$. **(3)**

11 Explain why the value of p does NOT change the horizontal asymptote of an exponential graph. **(2)**

TOTAL: 23 marks

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