WORKSHEET

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

Date: .....

MARK ____ / 14

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

1 What are the asymptotes of $y = \frac{6}{x}$? (2)

2 What are the asymptotes of $y = \frac{4}{x} - 3$? (2)

3 In which quadrants does $y = \frac{6}{x}$ lie? (1)

4 In which quadrants does $y = \frac{-5}{x}$ lie? (1)

5 Why does a hyperbola have no y-intercept? **(2)**

6 Find y when $x = 3$ for $y = \frac{6}{x}$. **(1)**

7 What is the y-intercept of $y = 2^x$? **(1)**

8 What is the asymptote of $y = 2^x + 5$? **(1)**

9 Find the y-intercept of $y = 3 \cdot 2^x - 4$. **(2)**

10 Does $y = (½)^x$ increase or decrease? **(1)**

TOTAL: 14 marks

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