## AQA, OCR, Edexcel

## GCSE

## GCSE Maths <br> Graph Exam Answers

Name:

## M M E <br> Mathsmadeeasy.co.uk

Total Marks:

## Graph Exam Questions

1. Sketch the following functions on the set of axes below:
a. $x^{2}+y^{2}=25$
b. $y=3 x+4$

a. Use the Graph to estimate the solutions to the pair of simultaneous equations above.

$$
\begin{gathered}
x \approx 0.3, y \approx 5 \\
x \approx-2.7, y \approx-4.2
\end{gathered}
$$

(8 Marks)
2. The graph below shows the line plotted for the equation $J=N P^{a}$


Given that N and P are positive constants, find the values of N and P .

$$
\begin{aligned}
& N=20 \\
& P=19
\end{aligned}
$$

(4 Marks)
3. Use the axes below to help you answer the following questions:

a. Plot the graph of $y=2 x^{2}-x$.
b. Use your plot to estimate solution(s) to $2 x^{2}-x=5$.

$$
x \approx-1.4, \quad x \approx 1.9
$$

c. Write down the equation of the line you would need to draw on the axes to estimate the solution(s) to $2 x^{2}-4 x-1=0$.

$$
y=3 x+1
$$

## (6 Marks)

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4. Use the axes below to help you answer the following questions:

a. Plot the graph of $y=2 \sin (x)$ for $-360^{\circ}<x>360^{\circ}$.
b. Use the graph from part (a) to estimate the solution(s) to $2 \sin (x)=1.5$ for $x$ values between $0^{\circ}$ and $360^{\circ}$.

$$
x \approx 49^{\circ}, \quad x \approx 131^{\circ}
$$

(5 marks)

