

Name: _____

Exam Style Questions

Types of Graph



Equipment needed: Ruler, Pencil, Pen and Calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

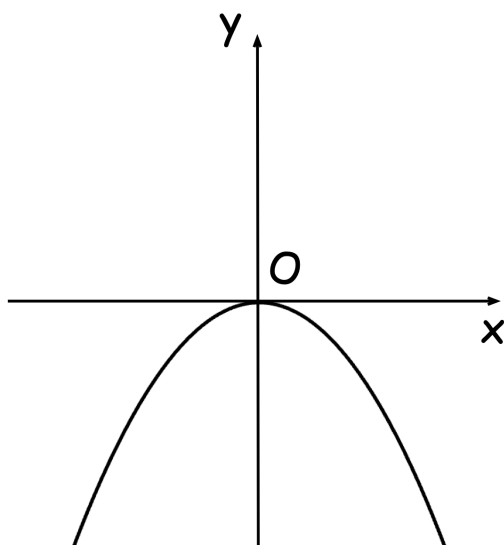
Video 346a



Answers and Video Solutions



1. Shown below is a sketch of a graph.



Circle the possible equation of the graph.

$$y = x^3$$

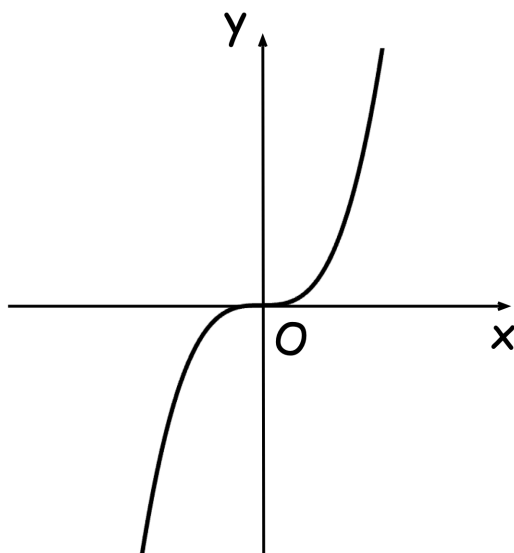
$$y = -x^3$$

$$y = -x^2$$

$$y = x^2$$

(1)

2. Shown below is a sketch of a graph.



Circle the possible equation of the graph.

$$y = x^3$$

$$y = -x^3$$

$$y = -x^2$$

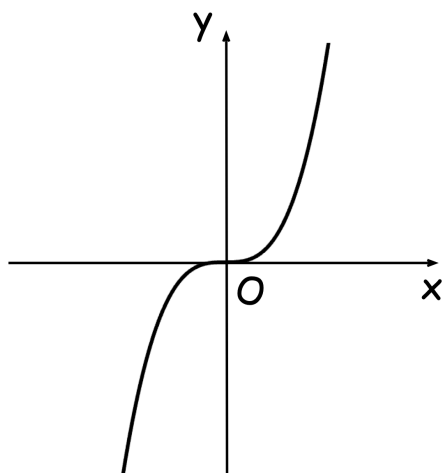
$$y = x^2$$

(1)

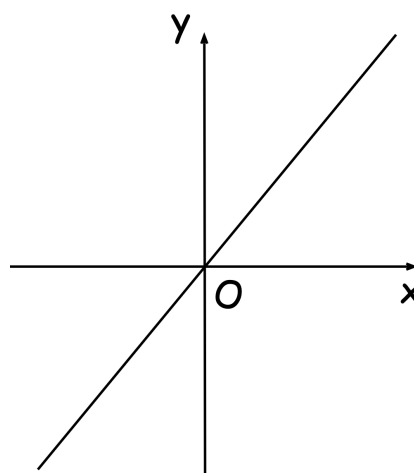
3. Shown below are the sketches of 4 graphs.



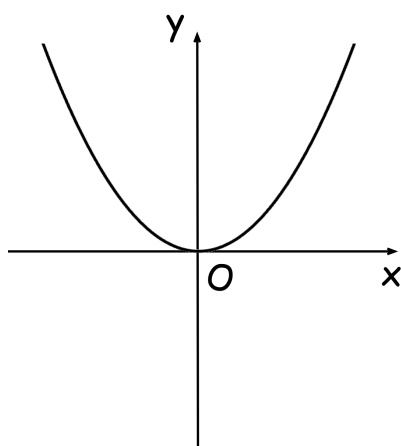
Graph 1



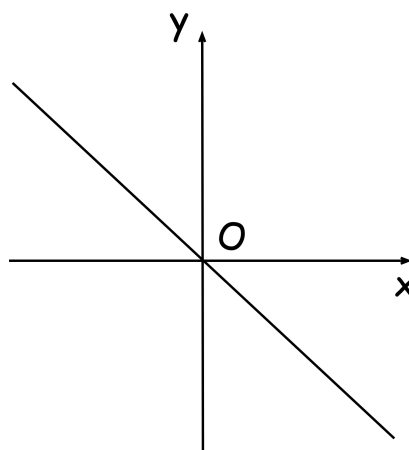
Graph 2



Graph 3



Graph 4



(a) Write down which graph could be a sketch of $y = -2x$

Graph
(1)

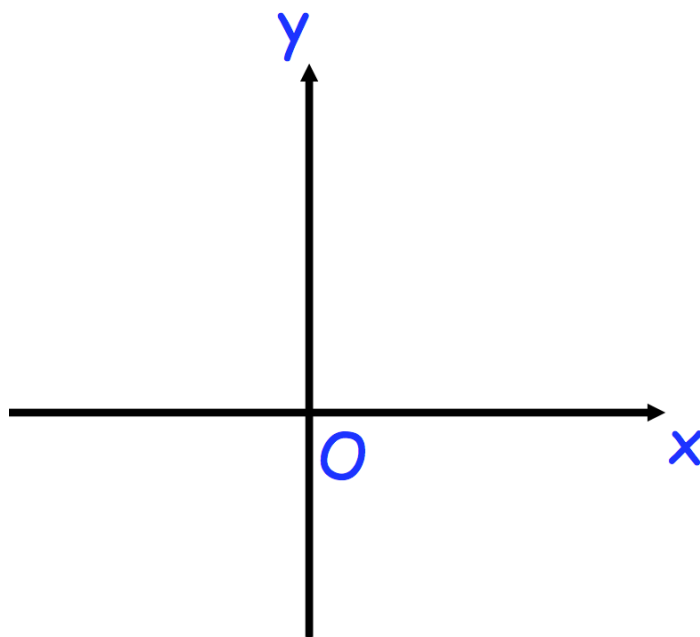
(b) Write down which graph could be a sketch of $y = x^2$

Graph
(1)

(c) Write down which graph could be a sketch of $y = x^3$

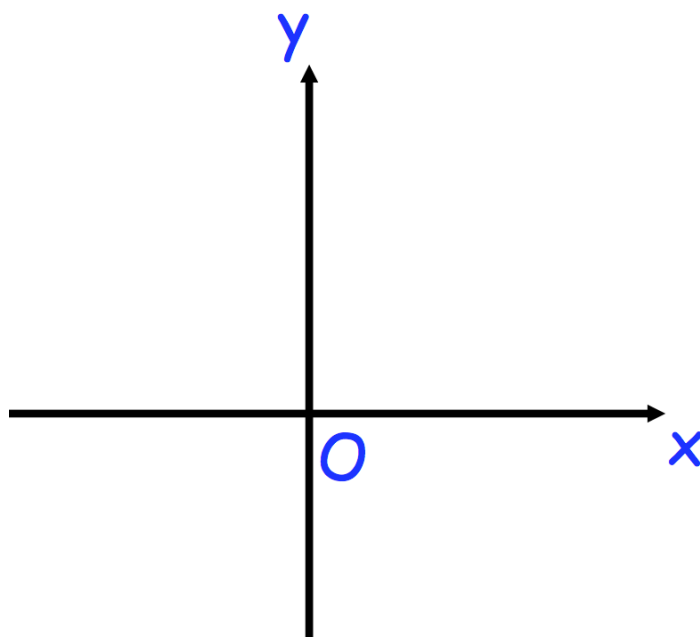
Graph
(1)

4. Sketch the graph of $y = x^2$



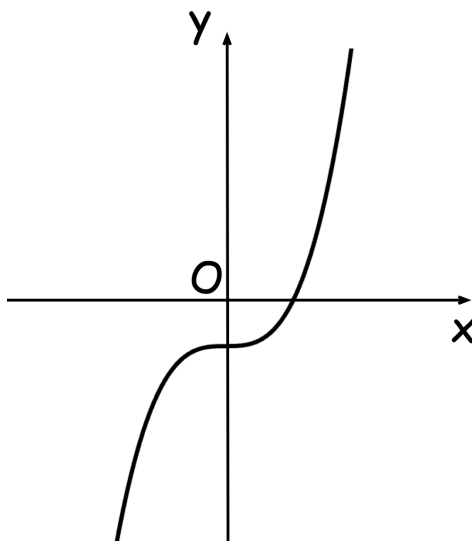
(1)

5. Sketch the graph of $y = \frac{1}{x}$



(1)

6. A graph is sketched below.



Circle the possible equation of the graph.

$$y = x^3 + 2$$

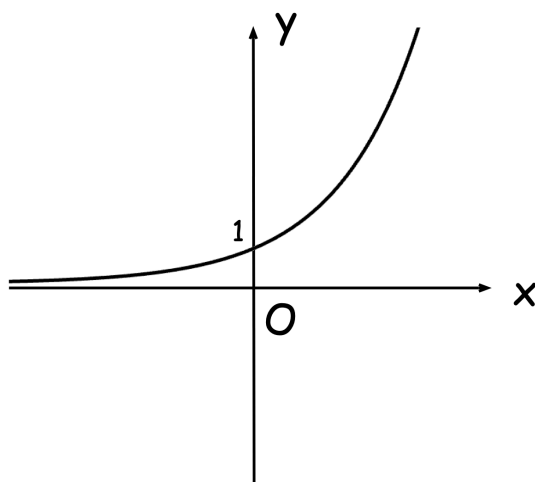
$$y = x^2 - 2$$

$$y = x^2 + 2$$

$$y = x^3 - 2$$

(1)

7. Here is a sketch of a graph.



Circle the possible equation of the graph.

$$y = \frac{4}{x}$$

$$y = 4^x$$

$$y = x^4$$

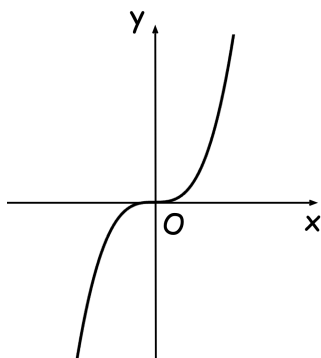
$$y = \frac{x}{4}$$

(1)

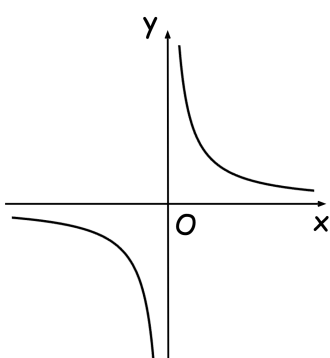
8. Shown below are six graphs.



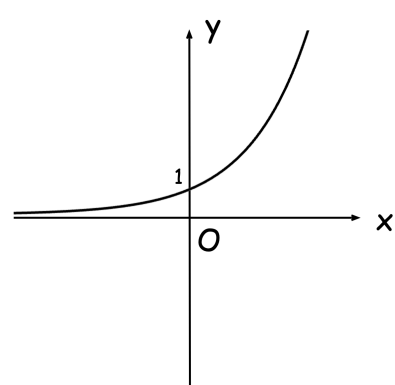
Graph 1



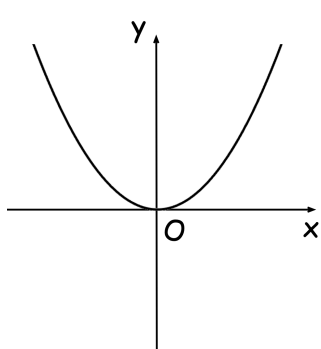
Graph 2



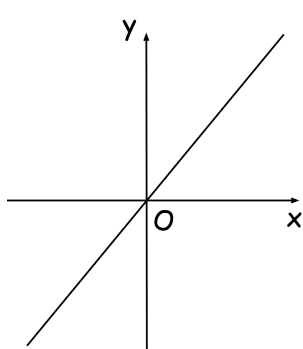
Graph 3



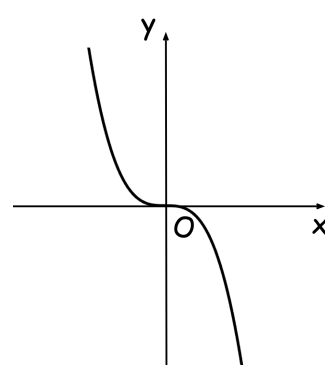
Graph 4



Graph 5



Graph 6

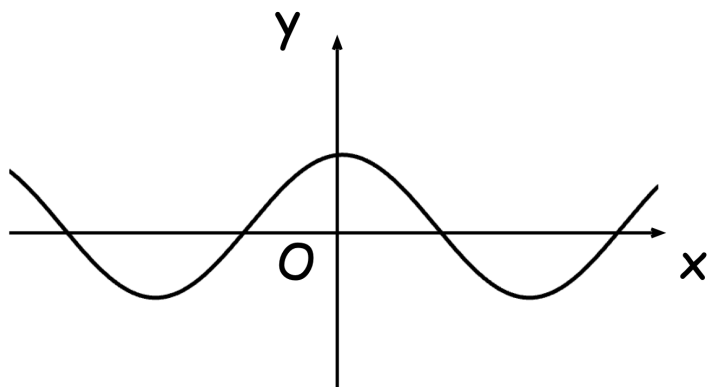


Match each relationship to the correct graph.

Equation	Graph
$y = -x^3$	
$y = \frac{1}{x}$	
$y = 3^x$	

(2)

9. Shown below is the sketch of a graph.



Circle the possible equation of the graph.

$$y = \frac{1}{x}$$

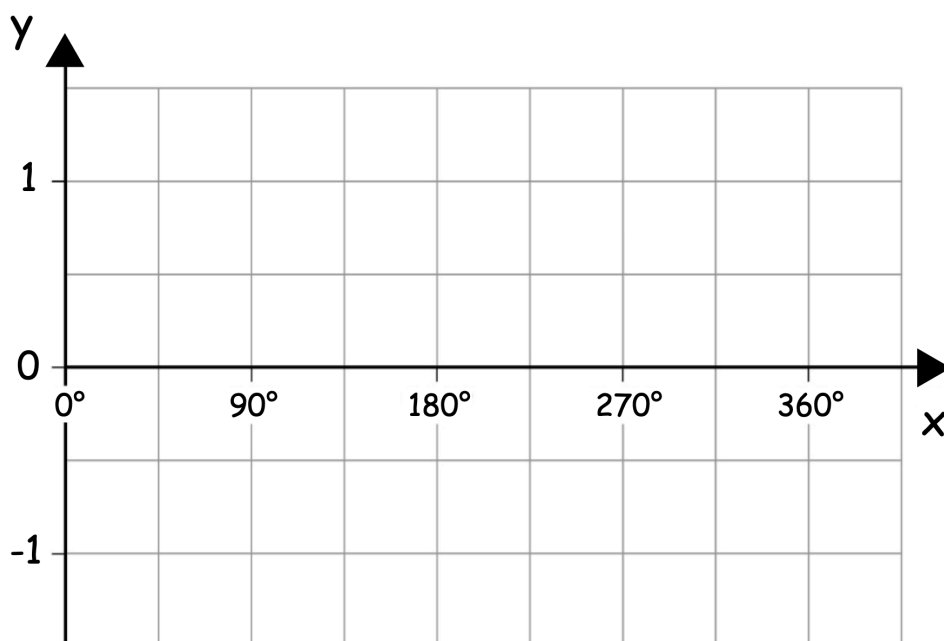
$$y = \sin x$$

$$y = \cos x$$

$$y = 5^x$$

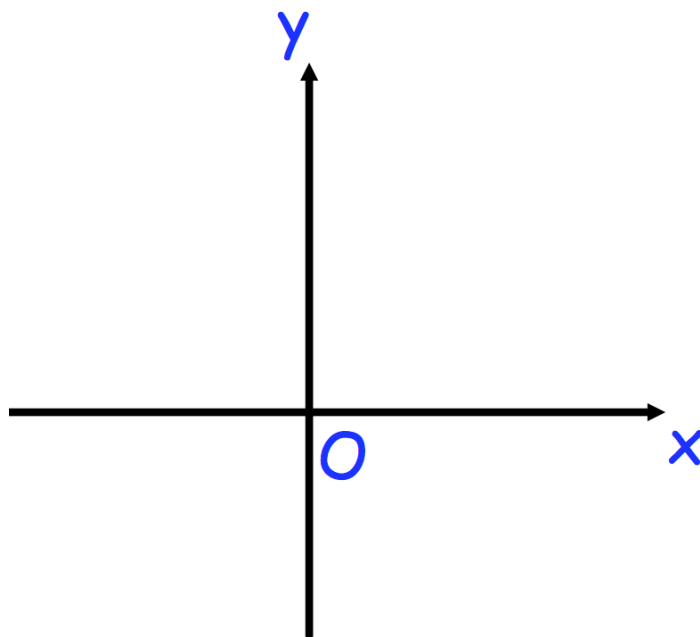
(1)

10. Sketch the graph of $y = \sin x$ for $0 \leq x \leq 360$



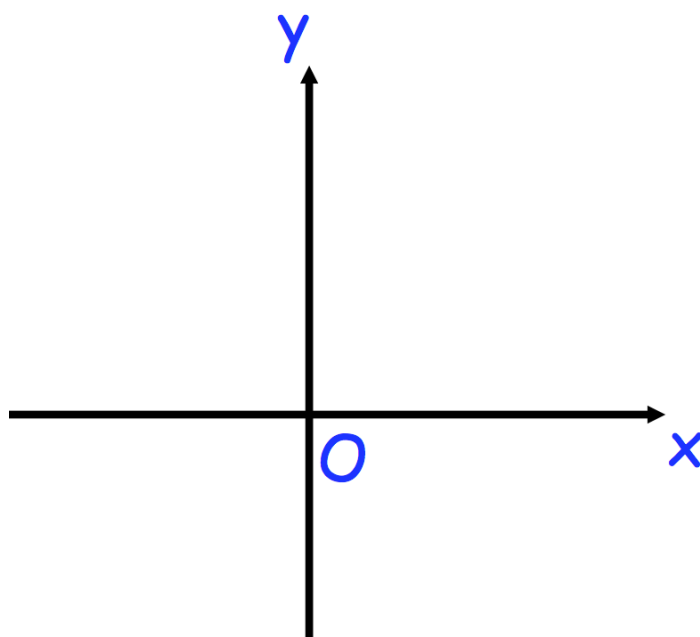
(1)

11. Sketch the graph of $y = 2^{-x}$
Label the coordinates of any points of intersection with the axes.



(2)

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12. Sketch the graph of $y = -\frac{1}{x}$



(1)